

```
graph TD; 20[Primary asset class selection criterion for potential inclusion in the benchmark] --> 22[Refine selection, e.g., only large cap growth equity funds with return histories greater than two years]; 22 --> 23[Universe of funds/portfolios, e.g. large cap growth equities. Data: fund identifier & monthly returns]; 23 --> 24[Refine selection of funds/portfolios based on rolling alphas and rules, i.e., either initial selection or update]; 24 --> 25[Produce benchmark weights for each asset, e.g., equal weighting]; 25 --> 26[Apply any special models/rules for final modifications to asset selections and weights]; 26 --> 32[Issue momentum shares e.g., initial public offering]; 32 --> 36{{Momentum share shareholders}}; 36 -- "Money to Purchase Momentum Shares" --> 32; 32 -- "Assets" --> 34{{Financial markets, e.g. domestic equity markets}}; 34 -- "Relevant Market Information, e.g. bids/asks/spreads" --> 26; 34 -- "Money to Purchase Assets" --> 32; 32 -- "Rebalancing Sales and Purchases" --> 28[Rebalance benchmark and portfolio underlying the momentum shares]; 28 -- "Data" --> 30[Tracking data]; 30 -- "Track Results" --> 28; 30 -- "Data" --> 38[Data providers, e.g. Lipper, Morningstar]; 38 -- "Prices and Other Data" --> 24; 38 -- "Data" --> 20;
```

The flowchart illustrates the process of creating momentum shares, starting with primary asset class selection (20) and refining selection (22) based on criteria like return history. It then identifies a universe of funds/portfolios (23) and refines selection based on rolling alphas and rules (24). Benchmark weights are produced (25), and special models/rules are applied (26) for final modifications. The process leads to issuing momentum shares (32), which involves financial markets (34) and momentum share shareholders (36). Tracking data (30) is used to rebalance the benchmark and portfolio (28), which then feeds back into the tracking data (30) and provides data to data providers (38).

Fig. 1

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| | Total Net Assets (Mil. \$) | Rank | Estimated Net Flow (Mil. \$) | Rank | Estimated Net Flow (Mil. \$) 01/31/1990 12/31/1999 | Rank |
|------------------------------------|-------------------------------|------|---------------------------------|------|---|------|
| Equity Funds | | | 1 year | | 10 years | |
| Large-Cap Growth Funds | \$507,552 | 1 | \$74,290 | 1 | \$150,014 | 1 |
| Multi-Cap Growth Funds | \$505,773 | 2 | \$35,681 | 2 | \$113,772 | 2 |
| Science & Technology Funds | \$168,385 | 9 | \$34,645 | 3 | \$46,002 | 10 |
| S&P 500 Funds | \$228,509 | 6 | \$32,037 | 4 | \$107,208 | 4 |
| Large-Cap Core Funds | \$362,813 | 3 | \$17,798 | 5 | \$71,334 | 6 |
| Multi-Cap Core Funds | \$172,192 | 8 | \$13,726 | 6 | \$59,230 | 7 |
| Small-Cap Growth Funds | \$79,166 | 14 | \$5,193 | 7 | \$21,928 | 12 |
| Global Funds | \$172,441 | 7 | \$4,059 | 8 | \$48,396 | 8 |
| Mid-Cap Growth Funds | \$121,106 | 12 | \$3,865 | 9 | \$19,536 | 14 |
| Japanese Funds | \$8,467 | 32 | \$3,035 | 10 | \$4,322 | 29 |
| Telecommunication Funds | \$12,455 | 28 | \$2,610 | 11 | \$3,413 | 31 |
| Pacific Region Funds | \$8,591 | 31 | \$1,993 | 12 | \$4,930 | 27 |
| Large-Cap Value Funds | \$349,444 | 4 | \$1,779 | 13 | \$107,304 | 3 |
| Health/Biotechnology Funds | \$39,650 | 18 | \$1,346 | 14 | \$8,065 | 20 |
| International Small-Cap Funds | \$14,999 | 27 | \$995 | 15 | \$4,918 | 28 |
| International Funds | \$258,999 | 5 | \$775 | 16 | \$93,631 | 5 |
| Balanced Funds | \$168,166 | 10 | \$591 | 17 | \$48,360 | 9 |
| Specialty Diversified Equity Funds | \$1,905 | 38 | \$331 | 18 | \$943 | 35 |
| Canadian Funds | \$83 | 42 | (\$12) | 19 | (\$28) | 39 |
| Pacific Ex Japan Funds | \$5,703 | 34 | (\$16) | 20 | \$2,984 | 32 |
| China Region Funds | \$876 | 40 | (\$84) | 21 | (\$58) | 40 |
| Gold Oriented Funds | \$1,805 | 39 | (\$96) | 22 | \$824 | 36 |
| Sector/Miscellaneous Funds | \$3,126 | 36 | (\$100) | 23 | \$1,004 | 34 |
| Balanced Target Maturity Funds | \$860 | 41 | (\$171) | 24 | (\$615) | 41 |
| Latin American Funds | \$2,145 | 37 | (\$306) | 25 | \$1,472 | 33 |
| Natural Resources Funds | \$4,379 | 35 | (\$321) | 26 | \$599 | 37 |
| Emerging Markets Funds | \$23,226 | 25 | (\$413) | 27 | \$16,345 | 17 |
| Convertible Securities Funds | \$8,807 | 30 | (\$1,008) | 28 | \$444 | 38 |
| Utility Funds | \$25,740 | 24 | (\$1,215) | 29 | (\$4,623) | 42 |
| Real Estate Funds | \$7,521 | 33 | (\$1,242) | 30 | \$6,150 | 23 |
| Small-Cap Core Funds | \$37,572 | 20 | (\$1,854) | 31 | \$11,681 | 18 |
| Mid-Cap Core Funds | \$52,320 | 16 | (\$1,974) | 32 | \$8,984 | 19 |
| European Region Funds | \$26,820 | 22 | (\$2,479) | 33 | \$6,308 | 22 |

Fig. 2.1

| | | | | | | |
|----------------------------|-----------|----|------------|----|----------|----|
| Global Small-Cap Funds | \$26,634 | 23 | (\$3,041) | 34 | \$3,639 | 30 |
| Mid-Cap Value Funds | \$32,018 | 21 | (\$3,480) | 35 | \$5,470 | 25 |
| Flexible Portfolio Funds | \$66,668 | 15 | (\$3,720) | 36 | \$18,459 | 15 |
| Global Flexible Port Funds | \$22,766 | 26 | (\$5,178) | 37 | \$5,721 | 24 |
| Income Funds | \$39,864 | 17 | (\$5,427) | 38 | \$6,484 | 21 |
| Financial Services Funds | \$11,167 | 29 | (\$5,713) | 39 | \$5,050 | 26 |
| Small-Cap Value Funds | \$39,029 | 19 | (\$8,795) | 40 | \$17,245 | 16 |
| Equity Income Funds | \$98,870 | 13 | (\$14,610) | 41 | \$22,922 | 11 |
| Multi-Cap Value Funds | \$163,174 | 11 | (\$33,600) | 42 | \$19,915 | 13 |

| | | | | | | |
|-------|-------------|--|-----------|--|-------------|--|
| Total | \$3,881,782 | | \$139,899 | | \$1,069,681 | |
|-------|-------------|--|-----------|--|-------------|--|

Fig. 2.2

Total Net Rank Estimated Rank Estimated Rank

| Assets (Mil. \$) | | | Net Flow (Mil. \$) | | Net Flow (Mil. \$) | |
|---|-----------|----|-----------------------|---|--------------------------|----|
| | | | | | 01/31/1990 12/31/1999 | |
| Fixed Income Funds | | | 1 year | | 10 years | |
| Insti Money Market Funds | \$370,160 | 2 | \$91,691 | 1 | \$206,337 | 2 |
| Money Market Funds | \$725,465 | 1 | \$84,929 | 2 | \$341,751 | 1 |
| Intermediate Investment Grade Debt Funds | \$77,708 | 8 | \$9,555 | 3 | \$45,840 | 3 |
| Instl U.S. Government Money Market Funds | \$79,651 | 6 | \$6,139 | 4 | \$22,802 | 9 |
| Tax-Exempt Money Market Funds | \$92,327 | 5 | \$3,793 | 5 | \$25,242 | 7 |
| California Tax-Exempt Money Market Funds | \$33,156 | 14 | \$3,589 | 6 | \$16,501 | 10 |
| Intermediate U.S. Government Funds | \$28,135 | 16 | \$2,792 | 7 | \$10,313 | 12 |
| U.S. Treasury Money Market Funds | \$57,724 | 10 | \$2,356 | 8 | \$23,492 | 8 |
| U.S. Government Money Market Funds | \$77,963 | 7 | \$2,319 | 9 | \$29,424 | 6 |

Fig. 3.1

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| | | | | | | |
|--|----------|----|---------|----|---------|----|
| New York Tax-Exempt Money Market Funds | \$18,178 | 23 | \$1,454 | 10 | \$8,417 | 15 |
| Short Investment Grade Debt Funds | \$22,619 | 21 | \$1,232 | 11 | \$3,803 | 20 |
| Massachusetts Tax-Exempt Money Market Fd | \$5,090 | 39 | \$693 | 12 | \$3,005 | 23 |
| Sh-Intmtd U.S. Government Funds | \$11,322 | 27 | \$599 | 13 | \$304 | 51 |
| Target Maturity Funds | \$2,004 | 64 | \$553 | 14 | \$845 | 40 |
| Short U.S. Government Funds | \$9,071 | 30 | \$529 | 15 | (\$413) | 79 |
| Other States Tax-Exempt Money Market Fds | \$5,842 | 35 | \$497 | 16 | \$6,228 | 17 |
| California Intermdt Municipal Debt Funds | \$3,494 | 51 | \$345 | 17 | \$2,227 | 26 |
| Intermediate Municipal Debt Funds | \$27,336 | 18 | \$336 | 18 | \$9,112 | 13 |
| New Jersey Tax-Exempt Money Market Funds | \$5,573 | 36 | \$261 | 19 | \$1,666 | 31 |
| Short Municipal Debt Funds | \$7,425 | 32 | \$176 | 20 | \$2,469 | 25 |
| Ohio Tax-Exempt Money Market Funds | \$3,629 | 50 | \$86 | 21 | \$1,801 | 30 |
| Massachusetts Intermediate Muni Debt Fds | \$517 | 84 | \$75 | 22 | \$264 | 54 |
| Hawaii Municipal Debt Funds | \$1,354 | 72 | \$74 | 23 | \$176 | 59 |
| Other States Sh-Intmtd Muni Debt Fds | \$1,498 | 69 | \$68 | 24 | \$1,147 | 36 |
| Pennsylvania Tax-Exempt Money Market Fds | \$4,587 | 42 | \$25 | 25 | \$2,136 | 27 |
| Georgia Municipal Debt Funds | \$951 | 76 | \$13 | 26 | \$301 | 52 |
| New York Insured Municipal Debt Funds | \$2,218 | 60 | \$8 | 27 | \$567 | 46 |
| Florida Insured Municipal Debt Funds | \$1,198 | 73 | \$1 | 28 | \$953 | 37 |
| Washington Municipal Debt Funds | \$47 | 89 | (\$10) | 29 | (\$4) | 68 |
| Tennessee Municipal Debt Funds | \$765 | 78 | (\$11) | 30 | \$352 | 48 |
| South Carolina Municipal Debt Funds | \$716 | 79 | (\$12) | 31 | \$63 | 66 |

Fig. 3.2

009648522-082600

| | | | | | | |
|---|---------|----|--------|----|---------|----|
| Louisiana Municipal Debt Funds | \$434 | 86 | (\$12) | 32 | \$69 | 65 |
| Virginia Municipal Debt Funds | \$2,426 | 57 | (\$14) | 33 | \$886 | 38 |
| Kansas Municipal Debt Funds | \$401 | 87 | (\$16) | 34 | \$295 | 53 |
| Virginia Intermediate Muni Debt Fds | \$594 | 81 | (\$23) | 35 | \$141 | 62 |
| Ultra-Short Obligations Funds | \$6,383 | 33 | (\$29) | 36 | \$2,812 | 24 |
| Missouri Municipal Debt Funds | \$995 | 75 | (\$32) | 37 | \$237 | 57 |
| Pennsylvania Municipal Debt Funds | \$7,502 | 31 | (\$32) | 38 | \$1,207 | 35 |
| Sh-Intmdt Municipal Debt Funds | \$6,102 | 34 | (\$34) | 39 | \$1,348 | 34 |
| Alabama Municipal Debt Funds | \$443 | 85 | (\$37) | 40 | (\$8) | 69 |
| California Sh-Intmdt Municipal Debt Fds | \$568 | 82 | (\$38) | 41 | \$320 | 50 |
| Florida Intermediate Municipal Debt Fds | \$872 | 77 | (\$41) | 42 | \$246 | 56 |
| Texas Municipal Debt Funds | \$344 | 88 | (\$48) | 43 | (\$141) | 72 |
| Ohio Intermediate Municipal Debt Fds | \$655 | 80 | (\$49) | 44 | \$249 | 55 |
| Connecticut Tax-Exempt Money Market Fds | \$2,878 | 54 | (\$54) | 45 | \$846 | 39 |
| Colorado Municipal Debt Funds | \$1,131 | 74 | (\$63) | 46 | \$145 | 61 |
| Maryland Municipal Debt Funds | \$2,348 | 59 | (\$66) | 47 | \$207 | 58 |
| Kentucky Municipal Debt Funds | \$1,395 | 71 | (\$73) | 48 | \$130 | 64 |
| General Bond Funds | \$4,800 | 41 | (\$77) | 49 | \$3,133 | 22 |
| North Carolina Municipal Debt Funds | \$2,074 | 62 | (\$87) | 50 | \$320 | 49 |
| Pennsylvania Intermediate Muni Debt Fds | \$526 | 83 | (\$88) | 51 | (\$212) | 77 |
| Massachusetts Municipal Debt Funds | \$4,185 | 43 | (\$94) | 52 | (\$376) | 78 |
| Oregon Municipal Debt Funds | \$1,455 | 70 | (\$94) | 53 | \$4 | 67 |
| Other States Municipal Debt Funds | \$1,793 | 65 | (\$95) | 54 | \$501 | 47 |
| California Insured Municipal Debt Funds | \$3,998 | 45 | (\$96) | 55 | \$578 | 45 |

Fig. 3.3

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| | | | | | | |
|---|----------|----|-----------|----|------------|----|
| Michigan Tax-Exempt Money Market Funds | \$1,551 | 67 | (\$120) | 56 | \$660 | 42 |
| Arizona Municipal Debt Funds | \$2,037 | 63 | (\$120) | 57 | (\$87) | 71 |
| Connecticut Municipal Debt Funds | \$1,719 | 66 | (\$140) | 58 | (\$175) | 74 |
| Intermediate U.S. Treasury Funds | \$3,826 | 47 | (\$166) | 59 | \$1,803 | 29 |
| International Income Funds | \$5,404 | 38 | (\$176) | 60 | \$1,575 | 32 |
| General U.S. Treasury Funds | \$2,738 | 56 | (\$181) | 61 | (\$39) | 70 |
| Minnesota Municipal Debt Funds | \$2,860 | 55 | (\$206) | 62 | (\$146) | 73 |
| Corporate Debt Funds BBB-Rated | \$23,624 | 19 | (\$211) | 63 | \$8,914 | 14 |
| New Jersey Municipal Debt Funds | \$5,017 | 40 | (\$212) | 64 | \$130 | 63 |
| New York Intermdt Municipal Debt Funds | \$2,118 | 61 | (\$214) | 65 | \$657 | 43 |
| Emerging Markets Debt Funds | \$3,672 | 49 | (\$230) | 66 | \$1,810 | 28 |
| Ohio Municipal Debt Funds | \$3,762 | 48 | (\$241) | 67 | (\$182) | 75 |
| Short World Multi-Market Income Funds | \$1,517 | 68 | (\$260) | 68 | (\$5,965) | 82 |
| Instl Tax-Exempt Money Market Funds | \$36,159 | 13 | (\$285) | 69 | \$8,269 | 16 |
| Michigan Municipal Debt Funds | \$3,237 | 52 | (\$325) | 70 | (\$209) | 76 |
| Sh-Intmdt Investment Grade Debt Funds | \$13,504 | 25 | (\$356) | 71 | \$3,761 | 21 |
| Other States Intermediate Muni Debt Fds | \$3,859 | 46 | (\$361) | 72 | \$1,492 | 33 |
| Florida Municipal Debt Funds | \$5,521 | 37 | (\$543) | 73 | \$583 | 44 |
| Adjustable Rate Mortgage Funds | \$3,123 | 53 | (\$669) | 74 | (\$11,550) | 84 |
| Flexible Income Funds | \$2,403 | 58 | (\$716) | 75 | \$167 | 60 |
| Short U.S. Treasury Funds | \$4,041 | 44 | (\$840) | 76 | \$740 | 41 |
| New York Municipal Debt Funds | \$18,465 | 22 | (\$1,257) | 77 | (\$1,766) | 80 |
| GNMA Funds | \$38,231 | 12 | (\$1,271) | 78 | (\$23,344) | 87 |
| Insured Municipal Debt Funds | \$11,700 | 26 | (\$1,292) | 79 | (\$5,682) | 81 |
| Global Income Funds | \$10,397 | 28 | (\$1,420) | 80 | (\$70,481) | 89 |
| High Yield Municipal Debt Funds | \$16,870 | 24 | (\$1,514) | 81 | \$4,397 | 19 |

Fig. 3.4

| | | | | | | |
|------------------------------|-------------|----|-----------|----|------------|----|
| U.S. Mortgage Funds | \$9,943 | 29 | (\$1,688) | 82 | (\$15,412) | 85 |
| General U.S. Government Fds | \$27,415 | 17 | (\$2,198) | 83 | (\$28,556) | 88 |
| Corporate Debt Funds A-Rated | \$38,832 | 11 | (\$2,246) | 84 | \$6,077 | 18 |
| Instl U.S. Treasury Money | \$101,156 | 3 | (\$2,324) | 85 | \$36,363 | 4 |
| Market Funds | | | | | | |
| Multi-Sector Income Funds | \$22,644 | 20 | (\$3,071) | 86 | \$10,853 | 11 |
| California Municipal Debt | \$30,621 | 15 | (\$3,139) | 87 | (\$7,862) | 83 |
| Funds | | | | | | |
| High Current Yield Funds | \$99,746 | 4 | (\$4,915) | 88 | \$34,996 | 5 |
| General Municipal Debt Funds | \$71,567 | 9 | (\$7,024) | 89 | (\$18,412) | 86 |
| Total | \$2,361,299 | | \$172,934 | | \$713,434 | |

Fig. 3.5

| | Estimated Net Flow (Mil. \$) 1yr ending 12/31/1997 | Rank | Estimated Net Flow (Mil. \$) 1yr ending 12/31/1998 | Rank | Estimated Net Flow (Mil. \$) 1yr ending 12/31/1999 | Rank |
|----------------------------|--|------|--|------|--|------|
| Large-Cap Growth Funds | \$12,141 | 7 | \$32,148 | 1 | \$74,290 | 1 |
| Multi-Cap Growth Funds | \$5,981 | 12 | (\$4,482) | 40 | \$35,681 | 2 |
| Science & Technology Funds | \$1,386 | 23 | \$115 | 21 | \$34,645 | 3 |
| S&P 500 Funds | \$18,545 | 4 | \$25,305 | 3 | \$32,037 | 4 |
| Large-Cap Core Funds | \$10,334 | 9 | \$9,769 | 5 | \$17,798 | 5 |
| Multi-Cap Core Funds | \$12,020 | 8 | \$16,760 | 4 | \$13,726 | 6 |
| Small-Cap Growth Funds | \$4,304 | 16 | \$1,820 | 12 | \$5,193 | 7 |
| Global Funds | \$12,826 | 6 | \$5,537 | 7 | \$4,059 | 8 |
| Mid-Cap Growth Funds | \$1,706 | 21 | (\$4,068) | 39 | \$3,865 | 9 |
| Japanese Funds | (\$191) | 36 | \$281 | 19 | \$3,035 | 10 |

Fig. 4.1

| | | | | | | |
|------------------------------------|------------------|----|------------------|----|------------------|----|
| Telecommunication Funds | (\$250) | 37 | \$586 | 18 | \$2,610 | 11 |
| Pacific Region Funds | (\$1,157) | 40 | (\$902) | 32 | \$1,993 | 12 |
| Large-Cap Value Funds | \$26,096 | 1 | \$32,099 | 2 | \$1,779 | 13 |
| Health/Biotechnology Funds | \$988 | 26 | \$4,989 | 9 | \$1,346 | 14 |
| International Small-Cap Funds | \$404 | 28 | \$266 | 20 | \$995 | 15 |
| International Funds | \$19,297 | 3 | (\$764) | 31 | \$775 | 16 |
| Balanced Funds | \$7,554 | 11 | \$7,433 | 6 | \$591 | 17 |
| Specialty Diversified Equity Funds | (\$599) | 39 | (\$240) | 27 | \$331 | 18 |
| Canadian Funds | (\$51) | 34 | (\$39) | 23 | (\$12) | 19 |
| Pacific Ex Japan Funds | (\$2,323) | 41 | (\$220) | 26 | (\$16) | 20 |
| China Region Funds | \$89 | 32 | (\$118) | 24 | (\$84) | 21 |
| Gold Oriented Funds | \$171 | 29 | \$87 | 22 | (\$96) | 22 |
| Sector/Miscellaneous Funds | (\$264) | 38 | \$614 | 17 | (\$100) | 23 |
| Balanced Target Maturity Funds | (\$179) | 35 | (\$152) | 25 | (\$171) | 24 |
| Latin American Funds | \$415 | 27 | (\$1,412) | 37 | (\$306) | 25 |
| Natural Resources Funds | \$91 | 31 | (\$1,360) | 36 | (\$321) | 26 |
| Emerging Markets Funds | \$4,769 | 15 | (\$1,074) | 33 | (\$413) | 27 |
| Convertible Securities Funds | \$140 | 30 | (\$395) | 29 | (\$1,008) | 28 |
| Utility Funds | (\$2,840) | 42 | (\$323) | 28 | (\$1,215) | 29 |
| Real Estate Funds | \$4,282 | 17 | (\$1,280) | 34 | (\$1,242) | 30 |
| Small-Cap Core Funds | \$4,857 | 14 | \$4,093 | 10 | (\$1,854) | 31 |
| Mid-Cap Core Funds | \$2,181 | 18 | (\$726) | 30 | (\$1,974) | 32 |
| European Region Funds | \$1,182 | 25 | \$5,385 | 8 | (\$2,479) | 33 |
| Global Small-Cap Funds | \$1,812 | 20 | (\$2,487) | 38 | (\$3,041) | 34 |
| Mid-Cap Value Funds | \$1,286 | 24 | (\$1,318) | 35 | (\$3,480) | 35 |
| Flexible Portfolio Funds | \$2,043 | 19 | \$2,503 | 11 | (\$3,720) | 36 |
| Global Flexible Port Funds | \$1,624 | 22 | (\$5,128) | 41 | (\$5,178) | 37 |
| Income Funds | \$36 | 33 | \$1,555 | 15 | (\$5,427) | 38 |
| Financial Services Funds | \$5,586 | 13 | \$1,738 | 14 | (\$5,713) | 39 |
| Small-Cap Value Funds | \$13,951 | 5 | \$1,754 | 13 | (\$8,795) | 40 |
| Equity Income Funds | \$8,330 | 10 | \$1,145 | 16 | (\$14,610) | 41 |
| Multi-Cap Value Funds | \$19,878 | 2 | (\$7,431) | 42 | (\$33,600) | 42 |
| Total | \$198,450 | | \$122,066 | | \$139,899 | |

Fig. 4.2

[illegible]

Fig. 5.1

| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | |
|--|------------------|----------------|-------------------------|--------------------------|---|---|---|---|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Latest Total Expense Ratio | Turnover | NASDAQ Mgt Co. | Management Company Name | J | K | L | M | N | O | P | Q | R | S | T |
| Expense Ratio | Portfolio Symbol | Code | | | | | | | Cum Tot Return | Cum Tot Return | Cum Tot Return | Cum Tot Return | Cum Tot Return | Cum Tot Return |
| 1.060 | 65 | RGTCX | ABN | ABN AMRO ASSET MGMT INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.520 | 65 | AGISX | ABN | ABN AMRO ASSET MGMT INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.920 | 112 | AGROX | ACS | ACCESSOR CAPITAL MGMT LP | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | AGRIX | ACS | ACCESSOR CAPITAL MGMT LP | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | ADCRX | ADV | ADVANCE CAPITAL MGMT INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.300 | 60 | ADIOX | ADS | ADVANTUS CAPITAL MGMT | | | | | 2.06 | -8.27 | 1.89 | 4.18 | | |
| 2.040 | 60 | ADHBX | ADS | ADVANTUS CAPITAL MGMT | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.040 | 60 | ADSBX | ADS | ADVANTUS CAPITAL MGMT | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.190 | 142 | AEGAX | AET | AETNA LIFE INS & ANNTY | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.940 | 142 | AETGX | AET | AETNA LIFE INS & ANNTY | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.940 | 142 | AEGRX | AET | AETNA LIFE INS & ANNTY | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.940 | 190 | ABCAX | AIM | AIM ADVISORS INC | | | | | 4.24 | -6.27 | 1.05 | 2.53 | | |
| 1.910 | 22 | ABCBX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.900 | 22 | ABCCX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.050 | 107 | CHTRX | AIM | AIM ADVISORS INC | | | | | 0.90 | -6.14 | 1.47 | 2.26 | | |
| 1.800 | 107 | BCHTX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.800 | 107 | CHTXX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | ADDAX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | ADDBX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | ADDCX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.530 | 21 | LCGAX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.230 | 21 | LCGBX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.230 | 21 | WEINX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.030 | 124 | WEIXX | AIM | AIM ADVISORS INC | | | | | 0.26 | -8.14 | 2.22 | 5.06 | | |
| 1.820 | 124 | BWEIX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.820 | 124 | CWEIX | AIM | AIM ADVISORS INC | | | | | N/A | N/A | N/A | N/A | N/A | N/A |

Fig. 5.2

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | |
| DV1 | | | | | | | | | | | | | | |
| | DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | EH | EI |
| 1 | | | | | | | | | | | | | | |
| 2 | 02/28/1999 | 03/31/1999 | 04/30/1999 | 05/31/1999 | 06/30/1999 | 07/31/1999 | 08/31/1999 | 09/30/1999 | 10/31/1999 | 11/30/1999 | 12/31/1999 | 01/31/2000 | 02/29/2000 | |
| 3 | 03/31/1999 | 04/30/1999 | 05/31/1999 | 06/30/1999 | 07/31/1999 | 08/31/1999 | 09/30/1999 | 10/31/1999 | 11/30/1999 | 12/31/1999 | 01/31/2000 | 02/29/2000 | 03/31/2000 | |
| 4 | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | |
| 5 | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | 2.62 | 1.39 | -3.09 | 7.09 | -5.43 | -2.01 | -2.66 | 8.31 | 2.12 | 6.65 | -5.79 | 4.63 | 8.96 | |
| 9 | 2.57 | 1.34 | -3.10 | 7.06 | -5.45 | -2.08 | -2.73 | 8.30 | 2.07 | 6.58 | -5.78 | 4.54 | 8.92 | |
| 10 | 6.09 | -1.21 | -4.14 | 6.35 | -3.55 | -0.10 | -1.81 | 7.29 | 3.24 | 9.29 | -6.81 | 2.69 | 8.01 | |
| 11 | 6.05 | -1.24 | -4.16 | 6.27 | -3.59 | -0.13 | -1.85 | 7.27 | 3.20 | 9.23 | -6.84 | 2.62 | 7.96 | |
| 12 | 5.95 | 0.63 | -2.96 | 6.20 | -2.54 | 1.82 | -2.64 | 7.00 | 3.68 | 6.94 | -3.76 | 0.23 | 8.87 | |
| 13 | 5.46 | -0.19 | -3.70 | 8.22 | -3.30 | 1.19 | -1.57 | 5.28 | 4.35 | 10.26 | -5.10 | 7.81 | 6.01 | |
| 14 | 5.40 | -0.23 | -3.72 | 8.10 | -3.31 | 1.09 | -1.66 | 5.21 | 4.32 | 10.17 | -5.15 | 7.76 | 5.92 | |
| 15 | 5.41 | -0.23 | -3.74 | 8.09 | -3.33 | 1.12 | -1.65 | 5.22 | 4.29 | 10.18 | -5.15 | 7.75 | 5.96 | |
| 16 | 5.58 | 0.29 | -2.42 | 8.78 | -1.09 | -0.32 | -2.27 | 4.78 | 4.20 | 12.59 | -4.50 | 7.43 | 7.39 | |
| 17 | N/A | 0.24 | -2.48 | 8.65 | -1.12 | -0.36 | -2.33 | 4.67 | 4.15 | 12.52 | -4.56 | 7.36 | 7.28 | |
| 18 | 5.53 | 0.24 | -2.49 | 8.71 | -1.18 | -0.37 | -2.30 | 4.66 | 4.13 | 12.55 | -4.54 | 7.32 | 7.33 | |
| 19 | 5.59 | 0.33 | -2.43 | 8.78 | -1.08 | -0.27 | -2.23 | 4.74 | 4.26 | 12.62 | -4.45 | 7.42 | 7.41 | |
| 20 | 4.93 | 1.10 | -2.95 | 6.29 | -2.77 | -0.79 | -0.98 | 7.02 | 3.23 | 8.63 | -3.30 | 1.57 | 8.85 | |
| 21 | 4.88 | 1.02 | -2.99 | 6.22 | -2.84 | -0.83 | -1.04 | 6.96 | 3.18 | 8.56 | -3.36 | 1.52 | 8.79 | |
| 22 | 4.85 | 1.05 | -2.99 | 6.22 | -2.84 | -0.85 | -1.02 | 6.96 | 3.16 | 8.58 | -3.36 | 1.52 | 8.79 | |
| 23 | 6.78 | 1.43 | -2.69 | 7.26 | -3.75 | -0.06 | -1.28 | 5.93 | 4.20 | 11.50 | -3.68 | 3.37 | 8.75 | |
| 24 | 6.77 | 1.37 | -2.77 | 7.26 | -3.84 | -0.18 | -1.29 | 5.86 | 4.12 | 11.41 | -3.73 | 3.30 | 8.71 | |
| 25 | 6.74 | 1.31 | -2.77 | 7.24 | -3.83 | -0.18 | -1.29 | 5.85 | 4.12 | 11.44 | -3.72 | 3.30 | 8.69 | |
| 26 | N/A | N/A | N/A | N/A | 1.57 | 0.73 | 0.27 | 8.98 | 9.80 | 15.90 | -2.72 | 12.91 | 0.71 | |
| 27 | N/A | N/A | N/A | N/A | 1.57 | 0.73 | 0.09 | 9.00 | 9.74 | 15.88 | -2.79 | 12.89 | 0.59 | |
| 28 | N/A | N/A | N/A | N/A | 1.57 | 0.73 | 0.09 | 9.00 | 9.74 | 15.88 | -2.79 | 12.83 | 0.65 | |
| 29 | N/A | -1.79 | -3.16 | 7.62 | -2.48 | 0.19 | -0.19 | 6.41 | 6.64 | 15.03 | 1.01 | 20.87 | 3.73 | |
| 30 | N/A | N/A | -3.25 | 7.52 | -2.58 | 0.09 | -0.28 | 6.43 | 6.58 | 14.93 | 0.87 | 20.86 | 3.69 | |
| 31 | N/A | N/A | -3.25 | 7.52 | -2.58 | 0.09 | -0.19 | 6.43 | 6.48 | 15.01 | 0.87 | 20.78 | 3.69 | |
| 32 | 6.00 | -0.30 | -1.70 | 7.00 | -2.70 | -0.63 | 0.78 | 4.50 | 6.85 | 10.65 | -3.62 | 15.33 | 2.27 | |
| 33 | 5.90 | -0.35 | -1.76 | 6.92 | -2.79 | -0.65 | 0.69 | 4.44 | 6.78 | 10.57 | -3.67 | 15.22 | 2.22 | |
| 34 | 5.94 | -0.35 | -1.80 | 6.96 | -2.79 | -0.69 | 0.73 | 4.43 | 6.77 | 10.52 | -3.67 | 15.25 | 2.22 | |
| Possible method to AC selection / | | | | | | | | | | | | | | |
| Tracking TR / | | | | | | | | | | | | | | |
| MF selection #3 / | | | | | | | | | | | | | | |
| MF selection #2 / | | | | | | | | | | | | | | |
| MF selection #1 / | | | | | | | | | | | | | | |
| 1st 2 fund filters / | | | | | | | | | | | | | | |
| rawdata / | | | | | | | | | | | | | | |

Fig. 5.3

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | |
|--|--------------------------|------|------------------------|------------|----------|----|----------------------------|--------------------|---|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | |
| AS22 | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J |
| 522 | UAM:Sirach Eqty;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 54.2 | G | Growth Funds | Institutional Load | |
| 523 | UAM:Sirach Growth;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 72.2 | G | Growth Funds | Institutional Load | |
| 524 | UAM:Sirach Growth;Int Sv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 11.0 | G | Growth Funds | Institutional Load | |
| 525 | UBS Inv US Lg Cap Gro | LCGE | Large-Cap Growth Funds | 03/31/2000 | 7.7 | G | Growth Funds | Level Load | |
| 526 | UMB Scout Stock Select | LCGE | Large-Cap Growth Funds | 03/31/2000 | 7.9 | G | Growth Funds | No Load | |
| 527 | Unified:Starwood Strat | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3.4 | G | Growth Funds | No Load | |
| 528 | United Vanguard Fund;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3013.2 | G | Growth Funds | Front-End Load | |
| 529 | United Vanguard Fund;Y | LCGE | Large-Cap Growth Funds | 03/31/2000 | 19.6 | G | Growth Funds | Institutional Load | |
| 530 | Universal Capital Growth | LCGE | Large-Cap Growth Funds | 02/29/2000 | 18.3 | CA | Capital Appreciation Funds | Front-End Load | |
| 531 | USAA First Srt Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 235.3 | G | Growth Funds | No Load | |
| 532 | Value Line Fund | LCGE | Large-Cap Growth Funds | 03/31/2000 | 503.3 | GI | Growth & Income Funds | No Load | |
| 533 | Value Line Lyge Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 785.7 | CA | Capital Appreciation Funds | No Load | |
| 534 | Value Line Multinatl Co | LCGE | Large-Cap Growth Funds | 03/31/2000 | 45.1 | GI | Growth & Income Funds | No Load | |
| 535 | Van Kampen Eq Gro;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 37.1 | G | Growth Funds | Front-End Load | |
| 536 | Van Kampen Eq Gro;B | LCGE | Large-Cap Growth Funds | 03/31/2000 | 44.1 | G | Growth Funds | Back-End Load | |
| 537 | Van Kampen Eq Gro;C | LCGE | Large-Cap Growth Funds | 03/31/2000 | 15.7 | G | Growth Funds | Level Load | |
| 538 | Vanguard Growth Indx;Ins | LCGE | Large-Cap Growth Funds | 03/31/2000 | 633.2 | G | Growth Funds | Institutional Load | |
| 539 | Vanguard Growth Indx;Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 16367.4 | G | Growth Funds | No Load | |
| 540 | Vanguard US Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 20038.9 | G | Growth Funds | No Load | |
| 541 | WellsFargo:Lg Co Gr;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 292.6 | G | Growth Funds | Front-End Load | |
| 542 | WellsFargo:Lg Co Gr;B | LCGE | Large-Cap Growth Funds | 03/31/2000 | 378.3 | G | Growth Funds | Back-End Load | |
| 543 | WellsFargo:Lg Co Gr;I | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1366.2 | G | Growth Funds | Institutional Load | |
| 544 | White Oak Growth Stock | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3701.8 | G | Growth Funds | No Load | |
| 545 | Wilshire Tgt:LC Gr;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 121.7 | G | Growth Funds | Institutional Load | |
| 546 | Wilshire Tgt:LC Gr;Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 609.8 | G | Growth Funds | No Load | |
| 547 | WM:Growth;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 414.7 | G | Growth Funds | Front-End Load | |
| 548 | WM:Growth;B | LCGE | Large-Cap Growth Funds | 03/31/2000 | 516.3 | G | Growth Funds | Back-End Load | |
| 549 | WM:Growth;I | LCGE | Large-Cap Growth Funds | 03/31/2000 | 477.1 | G | Growth Funds | Institutional Load | |
| 550 | Wp Stewart Growth Fund | LCGE | Large-Cap Growth Funds | 03/31/2000 | 76.3 | G | Growth Funds | No Load | |
| 551 | WT:Wilm Lg Cap Gro;Instl | LCGE | Large-Cap Growth Funds | 03/31/2000 | 320.0 | G | Growth Funds | No Load | |
| 552 | Average/Total | | | | 583102.9 | | | | |
| 553 | Median | | | | 76.3 | | | | |
| 554 | | | | | | | | | |
| 555 | | | | | | | | | |

rawdata 1st 2 fund filters MF selection #1 MF selection #2 MF selection #3 Tracking TR Possible method to AC selection

Fig. 5.4

009280" 22534960

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | |
|--|--------------------|-------|-----|-------|-----|-------------------------------------|------|-------|------|------|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | |
| 1522 Institutional Load | | | | | | | | | | |
| | I | J | K | L | M | N | O | P | Q | R |
| 522 | Institutional Load | 0.900 | 121 | SIEGX | UAM | UAM FUND SERVICES INC | N/A | N/A | N/A | N/A |
| 523 | Institutional Load | 1.010 | 90 | SGRWX | UAM | UAM FUND SERVICES INC | N/A | N/A | N/A | N/A |
| 524 | Institutional Load | 1.240 | 90 | SGWSX | UAM | UAM FUND SERVICES INC | N/A | N/A | N/A | N/A |
| 525 | Level Load | 1.570 | 51 | | UBS | UBS A.G./UBS BRINSON | N/A | N/A | N/A | N/A |
| 526 | No Load | N/A | N/A | | UMB | UMB BANK N.A. | N/A | N/A | N/A | N/A |
| 527 | No Load | 1.500 | 120 | STRWX | VIN | UNIFIED INV ADVISERS INC | N/A | N/A | N/A | N/A |
| 528 | Front-End Load | 1.130 | 84 | UNVGX | WNR | WADDELL & REED INV MGMT CO | 0.72 | -5.99 | 3.10 | 3.36 |
| 529 | Institutional Load | 0.900 | 84 | | WNR | WADDELL & REED INV MGMT CO | N/A | N/A | N/A | N/A |
| 530 | Front-End Load | 2.000 | 71 | UCGFX | GBG | GRAVER BOKHOF GOODWIN & SULLIVAN LP | N/A | N/A | N/A | N/A |
| 531 | No Load | 1.650 | 27 | UFSGX | USA | USAA INVESTMENT MGMT CO | N/A | N/A | N/A | N/A |
| 532 | No Load | 0.770 | 98 | VLJFX | VAL | VALUE LINE INC | 0.32 | -7.97 | 1.73 | 4.26 |
| 533 | No Load | 0.870 | 54 | VALLX | VAL | VALUE LINE INC | 0.83 | -8.58 | 1.56 | 3.64 |
| 534 | No Load | 1.580 | 36 | VLUMX | VAL | VALUE LINE INC | N/A | N/A | N/A | N/A |
| 535 | Front-End Load | 1.500 | 126 | VEGBX | VNK | VAN KAMPEN INV ADV CORP | N/A | N/A | N/A | N/A |
| 536 | Back-End Load | 2.250 | 126 | VEGBX | VNK | VAN KAMPEN INV ADV CORP | N/A | N/A | N/A | N/A |
| 537 | Level Load | 2.250 | 126 | VEGCX | VNK | VAN KAMPEN INV ADV CORP | N/A | N/A | N/A | N/A |
| 538 | Institutional Load | 0.120 | 29 | VIGIX | VAN | VANGUARD GROUP INC | N/A | N/A | N/A | N/A |
| 539 | No Load | 0.220 | 29 | VIGRX | VAN | VANGUARD GROUP INC | N/A | N/A | N/A | N/A |
| 540 | No Load | 0.390 | 49 | VWUSX | VAN | VANGUARD GROUP INC | 1.09 | -5.97 | 2.29 | 4.58 |
| 541 | Front-End Load | 1.200 | 28 | NVLAX | WFB | WELLS FARGO BANK | N/A | N/A | N/A | N/A |
| 542 | Back-End Load | 1.760 | 28 | NVLOX | WFB | WELLS FARGO BANK | N/A | N/A | N/A | N/A |
| 543 | Institutional Load | 1.000 | 28 | NVLCX | WFB | WELLS FARGO BANK | N/A | N/A | N/A | N/A |
| 544 | No Load | 1.000 | 6 | WOGSX | OAK | OAK ASSOCIATES | N/A | N/A | N/A | N/A |
| 545 | Institutional Load | 0.620 | 57 | WLCGX | WLS | WILSHIRE ASSOCIATES INC | N/A | N/A | N/A | N/A |
| 546 | No Load | 0.730 | 57 | DTLGX | WLS | WILSHIRE ASSOCIATES INC | N/A | N/A | N/A | N/A |
| 547 | Front-End Load | 1.272 | 119 | SRGFX | WMS | WASHINGTON MUTUAL INC | N/A | N/A | N/A | N/A |
| 548 | Back-End Load | 2.032 | 119 | SQGRX | WMS | WASHINGTON MUTUAL INC | N/A | N/A | N/A | N/A |
| 549 | Institutional Load | 0.872 | 119 | | WMS | WASHINGTON MUTUAL INC | N/A | N/A | N/A | N/A |
| 550 | No Load | 1.900 | 32 | WPSGX | WPS | STEWART W.P. & CO INC | N/A | N/A | N/A | N/A |
| 551 | No Load | 0.800 | 52 | RMGPX | WIL | WILMINGTON TRUST/RODNEY SQUARE | 1.12 | -7.84 | 3.27 | 3.67 |
| 552 | | 1.445 | 94 | | | | 0.91 | -7.29 | 1.78 | 3.29 |
| 553 | | 1.350 | 78 | | | | 0.85 | -7.38 | 1.89 | 3.25 |
| 554 | | | | | | | | | | |
| 555 | | | | | | | | | | |

Fig. 5.5

009280" 22534950

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | |
| DV522 4.38 = 4.38 | | | | | | | | | | | | | |
| DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | EH | EI |
| 522 | 4.38 | -1.86 | 6.98 | -2.97 | -0.27 | -1.29 | 5.79 | 4.96 | 10.48 | -3.89 | 2.49 | 4.87 | |
| 523 | 4.42 | -1.97 | 7.06 | -2.98 | -0.14 | -1.65 | 6.48 | 5.13 | 10.38 | -3.93 | 3.07 | 6.41 | |
| 524 | 4.43 | -2.05 | 7.08 | -2.99 | -0.22 | -1.65 | 6.51 | 5.08 | 10.37 | -3.96 | 3.00 | 6.46 | |
| 525 | 4.74 | 3.73 | 7.45 | -4.12 | -0.15 | -3.40 | 5.39 | 5.04 | 9.98 | -3.98 | 4.58 | 6.50 | |
| 526 | N/A | N/A | 2.34 | -0.40 | -2.29 | -3.57 | 1.90 | 3.42 | 2.07 | -4.95 | -4.48 | N/A | |
| 527 | 8.05 | 0.85 | 5.77 | -1.85 | -1.79 | -1.44 | 9.25 | 14.08 | 22.22 | -8.48 | 15.60 | 0.78 | |
| 528 | 7.25 | -2.29 | 10.44 | -3.28 | 0.10 | 0.70 | 6.23 | 7.08 | 15.25 | -2.76 | 15.62 | 5.13 | |
| 529 | 7.24 | -2.38 | 10.43 | -3.28 | 0.20 | 0.70 | 6.32 | 7.06 | 15.20 | -2.67 | 15.65 | 5.11 | |
| 530 | 6.59 | 4.93 | 6.16 | -4.99 | -0.34 | -4.19 | 3.92 | 3.38 | 4.48 | -4.03 | 0.67 | 8.88 | |
| 531 | 6.66 | 0.33 | 7.29 | -3.74 | -1.88 | -3.12 | 4.24 | 3.94 | 6.57 | -4.44 | 4.65 | 5.39 | |
| 532 | 6.51 | -0.20 | 7.53 | -2.23 | -0.92 | -1.33 | 5.03 | 5.18 | 6.32 | -5.79 | 1.86 | 9.09 | |
| 533 | 6.46 | -0.62 | 7.85 | -2.60 | 0.06 | -1.35 | 6.29 | 5.10 | 7.95 | -5.86 | 1.83 | 11.03 | |
| 534 | 5.90 | -0.15 | 6.87 | -0.54 | 2.86 | -1.82 | 4.05 | 6.15 | 9.74 | -5.01 | 2.42 | 6.67 | |
| 535 | 5.32 | 1.63 | 7.73 | -2.31 | 0.73 | 0.65 | 5.64 | 4.73 | 9.75 | -2.54 | 3.03 | 9.02 | |
| 536 | 5.26 | 1.55 | 7.70 | -2.41 | 0.74 | 0.49 | 5.61 | 4.70 | 9.70 | -2.64 | 2.99 | 9.00 | |
| 537 | 5.36 | 1.47 | 7.71 | -2.41 | 0.74 | 0.49 | 5.61 | 4.70 | 9.63 | -2.57 | 2.92 | 9.01 | |
| 538 | 4.84 | -0.18 | 7.30 | -3.18 | 1.36 | -1.69 | 6.93 | 4.28 | 7.81 | -6.67 | 2.06 | 9.21 | |
| 539 | 4.82 | -0.21 | 7.28 | -3.15 | 1.33 | -1.69 | 6.90 | 4.28 | 7.79 | -6.67 | 2.07 | 9.21 | |
| 540 | 3.59 | -0.80 | 7.37 | -3.62 | 0.78 | -1.98 | 8.65 | 3.28 | 7.08 | -5.56 | 2.14 | 9.03 | |
| 541 | 6.20 | 0.42 | 8.80 | -4.89 | 0.25 | -3.82 | 8.63 | 3.65 | 11.00 | -2.57 | 1.87 | 11.77 | |
| 542 | 6.15 | 0.39 | 8.77 | -4.94 | 0.20 | -3.84 | 8.57 | 3.60 | 10.93 | -2.59 | 1.82 | 11.72 | |
| 543 | 6.21 | 0.44 | 8.83 | -4.86 | 0.25 | -3.79 | 8.63 | 3.68 | 11.00 | -2.54 | 1.88 | 11.80 | |
| 544 | 5.53 | -1.72 | 10.80 | -3.64 | 2.44 | -0.80 | 10.51 | 5.31 | 8.93 | 1.00 | 9.14 | 8.98 | |
| 545 | 5.13 | -0.06 | 7.06 | -3.19 | 2.59 | -2.39 | 8.03 | 3.02 | 11.63 | -6.79 | 3.51 | 8.22 | |
| 546 | 5.11 | -0.06 | 7.01 | -3.19 | 2.54 | -2.42 | 8.00 | 3.00 | 11.62 | -6.83 | 3.47 | 8.21 | |
| 547 | 12.15 | 5.09 | 8.01 | -3.93 | 2.77 | 4.89 | 7.41 | 10.94 | 19.74 | 0.17 | 12.27 | 1.75 | |
| 548 | 12.70 | 4.67 | 7.95 | -3.96 | 2.63 | 4.81 | 7.36 | 10.85 | 19.70 | 0.09 | 12.18 | 1.69 | |
| 549 | 12.37 | 5.05 | 7.97 | -3.86 | 2.55 | 4.93 | 7.46 | 10.98 | 19.76 | 0.23 | 12.28 | 1.78 | |
| 550 | 0.95 | -1.27 | 5.95 | -5.44 | 0.20 | -0.84 | 7.08 | -0.60 | 4.67 | -4.63 | -4.96 | 14.63 | |
| 551 | 4.00 | -0.37 | 8.74 | -3.49 | 0.60 | -1.20 | 8.22 | 7.37 | 21.69 | -4.91 | 14.14 | 5.80 | |
| 552 | 6.09 | 0.25 | 7.27 | -3.12 | 1.65 | -0.77 | 7.16 | 5.80 | 12.21 | -4.04 | 7.57 | 5.37 | |
| 553 | 5.51 | 0.23 | 7.26 | -3.04 | 0.20 | -0.99 | 7.10 | 5.18 | 11.16 | -4.13 | 6.01 | 5.98 | |
| 554 | | | | | | | | | | | | | |
| 555 | | | | | | | | | | | | | |

14

▶▶

rawdata / 1st 2 fund filters / MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection /

Fig. 5.6

009230" 22584960

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | |
|--|---|------|------------------------|------------|------------------|-----|-----------------------------------|--------------------|---------------|-----------|-----|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | |
| A1 = 1st toss out all without TR data before 1/31/95 | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | |
| 1 | 1st toss out all without TR data before 1/31/95 | | | | | | | | | | |
| 2 | 2nd eliminate duplicate funds by same MF company and for same mandate (order of preference: lowest total expenses (1st no load, 2nd institutional load, 3rd front-end load) | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | Fund | L | L CIs | Latest | Latest | Pro | Pro | Load | Latest Total | Turnover | NAC |
| 10 | Name | CIs | Description | TNA Date | Assets (Mil. \$) | IOB | IOB | Type | Expense Ratio | Portfolio | Syn |
| 11 | | | | | | | | | | | |
| 12 | WT: Wilim Lg Cap Gro: Instl | LCGE | Large-Cap Growth Funds | 03/31/2000 | 320.0 | G | Growth Funds | No Load | 0.8 | 52 RM | |
| 13 | Wp Stewart Growth Fund | LCGE | Large-Cap Growth Funds | 03/31/2000 | 76.3 | G | Growth Funds | No Load | 1.9 | 32 WP | |
| 14 | WM: Growth; A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 414.7 | G | Growth Funds | Front-End Load | 1.272 | 119 SRC | |
| 15 | Wilshire Tgt: LC Gr: Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 609.8 | G | Growth Funds | No Load | 0.73 | 57 DTL | |
| 16 | White Oak Growth Stock | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3701.8 | G | Growth Funds | No Load | 1 | 6 WO | |
| 17 | Wells Fargo: Lg Co Gr: I | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1366.2 | G | Growth Funds | Institutional Load | 1 | 28 NVL | |
| 18 | Vanguard US Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 20038.9 | G | Growth Funds | No Load | 0.39 | 49 VW | |
| 19 | Vanguard Growth Indx: Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 16387.4 | G | Growth Funds | No Load | 0.22 | 29 VIG | |
| 20 | Value Line Lyge Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 785.7 | CA | Capital Appreciat: No Load | No Load | 0.87 | 54 VAL | |
| 21 | Value Line Fund | LCGE | Large-Cap Growth Funds | 03/31/2000 | 503.3 | CA | Growth & Income | No Load | 0.77 | 98 VLIF | |
| 22 | Universal Capital Growth | LCGE | Large-Cap Growth Funds | 02/29/2000 | 18.3 | CA | Capital Appreciat: Front-End Load | Front-End Load | 2 | 71 UCC | |
| 23 | United Vanguard Fund; A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3013.2 | G | Growth Funds | Front-End Load | 1.13 | 84 UNA | |
| 24 | UAM: Sirach Growth; Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 72.2 | G | Growth Funds | Institutional Load | 1.01 | 90 SGF | |
| 25 | Turner Gro Equity | LCGE | Large-Cap Growth Funds | 03/31/2000 | 309.2 | CA | Capital Appreciat: No Load | No Load | 1.04 | 250 TRG | |
| 26 | Trainer Worthm: First Mut | LCGE | Large-Cap Growth Funds | 03/31/2000 | 74.9 | CA | Capital Appreciat: No Load | Institutional Load | 1.64 | 56 FMF | |
| 27 | TCW: Galileo: Sel Eq: Instl | LCGE | Large-Cap Growth Funds | 03/31/2000 | 447.2 | G | Growth Funds | Institutional Load | 0.88 | 48 TGC | |
| 28 | Target: Large Cap Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 615.4 | G | Growth Funds | No Load | 0.68 | 54 TAL | |
| 29 | SunAmerica: Blue Chp: A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 147.9 | G | Growth Funds | Front-End Load | 1.49 | 71 SVL | |
| 30 | Strong Total Return | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1950.6 | GI | Growth & Income | No Load | 1 | 268 STR | |
| 31 | Stein Roe Growth Stock | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1158.3 | G | Growth Funds | No Load | 0.94 | 36 SRF | |
| 32 | SS Research: Growth; S | LCGE | Large-Cap Growth Funds | 03/31/2000 | 235.4 | G | Growth Funds | Institutional Load | 0.72 | 39 STE | |
| 33 | Spectra Fund | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1098.3 | CA | Capital Appreciat: No Load | No Load | 1.96 | 191 SPE | |
| 34 | Sit Large Cap Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 178.2 | GI | Growth & Income | No Load | 1 | 71 SNI | |
| Tracking TR / Possible method to AC selection | | | | | | | | | | | |

Fig. 6.1

Microsoft Excel - Patent #4 (RCS example)

File Edit View Insert Format Tools Data Accounting Window Help

Fig. 6.2

0092810" 23534960

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | |
| BL1 | | | | | | | | | | | | | | |
| | BM | BN | BO | BP | BQ | BR | BS | BT | BU | BV | BW | BX | BY | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | 02/28/1999 | 03/31/1999 | 04/30/1999 | 05/31/1999 | 06/30/1999 | 07/31/1999 | 08/31/1999 | 09/30/1999 | 10/31/1999 | 11/30/1999 | 12/31/1999 | 01/31/2000 | 02/29/2000 | |
| 8 | 03/31/1999 | 04/30/1999 | 05/31/1999 | 06/30/1999 | 07/31/1999 | 08/31/1999 | 09/30/1999 | 10/31/1999 | 11/30/1999 | 12/31/1999 | 01/31/2000 | 02/29/2000 | 03/31/2000 | |
| 9 | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | Cum | |
| 10 | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | Tot Return | |
| 11 | | | | | | | | | | | | | | |
| 12 | 4.00% | -0.37% | -2.75% | 8.74% | -3.49% | 0.60% | -1.20% | 8.22% | 7.37% | 21.63% | -4.91% | 14.14% | 5.80% | |
| 13 | 0.95% | -1.27% | -6.10% | 5.95% | -5.44% | 0.20% | -0.84% | 7.08% | -0.60% | 4.67% | -4.63% | -4.96% | 14.63% | |
| 14 | 12.15% | 5.09% | -5.61% | 8.01% | -3.93% | 2.77% | 4.89% | 7.41% | 10.94% | 19.74% | 0.17% | 12.27% | 1.75% | |
| 15 | 5.11% | -0.06% | -3.22% | 7.01% | -3.19% | 2.54% | -2.42% | 8.00% | 3.00% | 11.62% | -6.83% | 3.47% | 8.21% | |
| 16 | 5.53% | -1.72% | -2.50% | 10.80% | -3.64% | 2.44% | -0.80% | 10.51% | 5.31% | 8.93% | 1.00% | 9.14% | 8.98% | |
| 17 | 6.21% | 0.44% | -3.50% | 8.83% | -4.86% | 0.25% | -3.79% | 8.63% | 3.68% | 11.00% | -2.54% | 1.88% | 11.80% | |
| 18 | 3.59% | -0.80% | -3.34% | 7.37% | -3.62% | 0.78% | -1.98% | 8.65% | 3.28% | 7.08% | -5.56% | 2.14% | 9.03% | |
| 19 | 4.82% | -0.21% | -2.95% | 7.28% | -3.15% | 1.33% | -1.69% | 6.90% | 4.28% | 7.79% | -6.67% | 2.07% | 9.21% | |
| 20 | 6.46% | -0.62% | -4.70% | 7.85% | -2.60% | 0.06% | -1.35% | 6.29% | 5.10% | 7.95% | -5.86% | 1.83% | 11.03% | |
| 21 | 6.51% | -0.20% | -4.15% | 7.53% | -2.23% | -0.92% | -1.33% | 5.03% | 5.18% | 6.32% | -5.79% | 1.86% | 9.09% | |
| 22 | 6.59% | 4.93% | -1.58% | 6.16% | -4.99% | -0.34% | -4.19% | 3.92% | 3.38% | 4.48% | -4.03% | 0.67% | 8.88% | |
| 23 | 7.25% | -2.29% | -4.48% | 10.44% | -3.28% | 0.10% | 0.70% | 6.23% | 7.08% | 15.25% | -2.76% | 15.62% | 5.13% | |
| 24 | 4.42% | -1.97% | -3.17% | 7.06% | -2.98% | -0.14% | -1.65% | 6.48% | 5.13% | 10.38% | -3.93% | 3.07% | 6.41% | |
| 25 | 5.97% | -0.64% | -2.51% | 6.08% | -3.18% | 3.16% | -0.87% | 9.57% | 8.28% | 17.72% | -2.03% | 15.07% | 0.46% | |
| 26 | 11.16% | 2.60% | -4.83% | 4.95% | -5.38% | 1.85% | 1.94% | 7.69% | 6.23% | 9.58% | -5.17% | 5.13% | 9.35% | |
| 27 | 7.49% | -0.32% | -3.60% | 8.85% | -4.44% | 0.63% | -3.25% | 12.26% | 4.88% | 11.39% | -1.42% | 8.18% | 9.22% | |
| 28 | 6.65% | -0.04% | -3.57% | 12.14% | -2.23% | 2.19% | -1.53% | 9.68% | 6.37% | 12.26% | 0.58% | 16.49% | 3.99% | |
| 29 | 5.51% | 1.94% | -3.60% | 7.03% | -2.71% | 0.55% | -0.92% | 7.37% | 6.07% | 14.46% | -3.70% | 6.39% | 4.55% | |
| 30 | 7.89% | 1.91% | -4.36% | 6.83% | -2.18% | -0.05% | -0.67% | 7.20% | 7.08% | 23.89% | -7.15% | 20.54% | -0.97% | |
| 31 | 6.33% | -1.67% | -2.68% | 7.41% | -3.19% | -1.28% | -0.99% | 6.17% | 4.57% | 12.91% | 0.18% | 9.93% | 5.13% | |
| 32 | 6.52% | 0.96% | -2.30% | 5.03% | -2.24% | 1.88% | -1.43% | 6.54% | 7.21% | 13.62% | -2.33% | 9.90% | 2.84% | |
| 33 | 10.82% | 0.14% | -5.77% | 9.51% | -4.49% | 2.19% | 2.35% | 7.49% | 10.87% | 21.11% | -2.75% | 18.44% | -3.10% | |
| 34 | 4.26% | -2.15% | -3.16% | 6.96% | -3.41% | 1.06% | -0.16% | 7.79% | 4.41% | 11.96% | -3.58% | 4.27% | 7.91% | |
| Possible method to AC selection / | | | | | | | | | | | | | | |
| Tracking TR / | | | | | | | | | | | | | | |
| MF selection #1 / MF selection #2 / MF selection #3 | | | | | | | | | | | | | | |
| 1st 2 fund filters | | | | | | | | | | | | | | |
| rawdata | | | | | | | | | | | | | | |

Fig. 6.3

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | |
|--|--------------------------|------|------------------------|------------|---------|----|----------------------|--------------------|------|---------|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | |
| A102 = Drey/Founders:Growth;F | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J |
| 102 | Drey/Founders:Growth;F | LCGE | Large-Cap Growth Funds | 03/31/2000 | 3602.7 | G | Growth Funds | No Load | 1.09 | 117 FRC |
| 103 | Delaware US Growth;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 81.7 | G | Growth Funds | Institutional Load | 1.56 | 132 DEL |
| 104 | Concent Inv;Gro:1 | LCGE | Large-Cap Growth Funds | 03/31/2000 | 5181.8 | G | Growth Funds | Front-End Load | 0.76 | 37 CSC |
| 105 | Columbia Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 2390.5 | G | Growth Funds | No Load | 0.65 | 118 CLN |
| 106 | Cliff Funds LgCp Gro:A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 512.2 | G | Growth Funds | Front-End Load | 1.05 | 53 CFL |
| 107 | Chase:Equity Growth;Pfm | LCGE | Large-Cap Growth Funds | 03/31/2000 | 366.9 | G | Growth Funds | Institutional Load | 1 | 35 RTE |
| 108 | CG Cap Mkts:Lrg Cap Gro | LCGE | Large-Cap Growth Funds | 03/31/2000 | 2785.7 | G | Growth Funds | No Load | 0.68 | 0 TLG |
| 109 | Burnham Inv:Burrham;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 205.9 | GI | Growth & Income | Front-End Load | 1.3 | 55 BUF |
| 110 | Bridgeway:Social Resp | LCGE | Large-Cap Growth Funds | 03/31/2000 | 5.7 | G | Growth Funds | No Load | 1.5 | 58 BRE |
| 111 | Boston 1794:Gro & Inc | LCGE | Large-Cap Growth Funds | 03/31/2000 | 636.1 | GI | Growth & Income | No Load | 0.89 | 50 SEC |
| 112 | BlackRock:Lg Cp Gr;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1377.8 | G | Growth Funds | Institutional Load | 0.81 | 60 PNA |
| 113 | Berger Growth & Income | LCGE | Large-Cap Growth Funds | 03/31/2000 | 669.2 | GI | Growth & Income | No Load | 1.35 | 173 BEC |
| 114 | AXP:New Dimensions;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 18540.4 | G | Growth Funds | Front-End Load | 0.86 | 34 INNI |
| 115 | AXP:Growth Fund;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 6837.1 | G | Growth Funds | Front-End Load | 0.89 | 17 INID |
| 116 | Atlas:Gro & Inc;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 465.5 | GI | Growth & Income | No Load | 1.06 | 106 ASC |
| 117 | Armada:Equity Gro;I | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1361.7 | G | Growth Funds | Institutional Load | 0.92 | 57 AEC |
| 118 | Arbor:OVB Cap App;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 178.5 | G | Growth Funds | Institutional Load | 1.02 | 74 OC |
| 119 | Arbor:GoldenOak Gro;Inst | LCGE | Large-Cap Growth Funds | 03/31/2000 | 73.1 | G | Growth Funds | Institutional Load | 1.08 | 71 GDC |
| 120 | Amer Cent:AC Ultra;Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 46185.5 | G | Growth Funds | No Load | 1 | 42 TW |
| 121 | Amer Cent:AC Growth;Inv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 10801.4 | G | Growth Funds | No Load | 1 | 92 TW |
| 122 | Alliance Premier Gr;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 5564.4 | G | Growth Funds | Front-End Load | 1.5 | 75 APC |
| 123 | Allg/Mont&Caldwell Gro;N | LCGE | Large-Cap Growth Funds | 03/31/2000 | 1654.2 | G | Growth Funds | No Load | 1.05 | 32 MCI |
| 124 | Allg/Chicago Gro & Inc | LCGE | Large-Cap Growth Funds | 03/31/2000 | 107.1 | G | Growth Funds | No Load | 1.06 | 29 CHT |
| 125 | Alger Ret:Growth | LCGE | Large-Cap Growth Funds | 03/31/2000 | 552.8 | GI | Growth & Income | No Load | 1.11 | 130 ALG |
| 126 | Aim Ret:Cap Apprec | LCGE | Large-Cap Growth Funds | 03/31/2000 | 297.9 | CA | Capital Appreciation | Institutional Load | 1.44 | 177 ALA |
| 127 | Aim Eq:Wngarten;Rtl A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 10778.9 | G | Growth Funds | Front-End Load | 1.03 | 124 WE |
| 128 | Aim Eq:Charter;Rtl A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 6198.2 | GI | Growth & Income | Front-End Load | 1.05 | 107 CHT |
| 129 | Aim Eq:Blue Chip;Rtl A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 2930.5 | GI | Growth & Income | Front-End Load | 1.19 | 22 ABC |
| 130 | Aetna:Growth;I | LCGE | Large-Cap Growth Funds | 03/31/2000 | 269.0 | G | Growth Funds | Institutional Load | 0.94 | 142 AEC |
| 131 | Advantus Horizon;A | LCGE | Large-Cap Growth Funds | 03/31/2000 | 72.1 | G | Growth Funds | Front-End Load | 1.3 | 60 ADI |
| 132 | Accessor:Growth;Adv | LCGE | Large-Cap Growth Funds | 03/31/2000 | 365.0 | G | Growth Funds | No Load | 0.92 | 112 AGF |
| 133 | ABN AMRO:Growth;Com | LCGE | Large-Cap Growth Funds | 03/31/2000 | 218.5 | G | Growth Funds | No Load | 1.06 | 65 RGI |
| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |

Fig. 6.4

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| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | |
|--|------|-----------|-----|-------------------------------|---|--------|-------|-------|--------|-------|--------|--|--|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | |
| 1102 = 1.09 | | | | | | | | | | | | | |
| | I | J | K | L | M | N | O | P | Q | R | S | | |
| 102 | 1.09 | 117 FRGRX | FND | FOUNDERS ASSET MGMT INC | | -0.69% | 4.85% | 3.96% | 2.22% | 3.34% | 6.84% | | |
| 103 | 1.56 | 132 DEUX | DEL | DELAWARE MGMT CO INC | | 0.10% | 2.16% | 3.22% | -0.97% | 4.72% | 7.05% | | |
| 104 | 0.76 | 37 CSGWX | SBS | SSB CITI FUND MANAGEMENT INC | | 0.95% | 4.33% | 1.94% | 2.51% | 3.97% | 3.69% | | |
| 105 | 0.65 | 118 CLMBX | COL | COLUMBIA FUNDS MGMT CO | | 0.24% | 4.86% | 3.60% | 1.40% | 2.26% | 3.78% | | |
| 106 | 1.05 | 53 CLFGX | CIT | CITIBANK N.A. | | 0.64% | 3.52% | 2.45% | 1.06% | 3.22% | 1.58% | | |
| 107 | 1 | 35 RITEX | CMB | CHASE MANHATTAN BANK | | 0.98% | 3.17% | 2.65% | 1.12% | 2.46% | 4.60% | | |
| 108 | 0.68 | 0 TLGUX | SBS | SSB CITI FUND MANAGEMENT INC | | 1.95% | 3.63% | 2.82% | 1.61% | 3.82% | 4.66% | | |
| 109 | 1.3 | 55 BURHX | BUR | BURNHAM ASSET MGMT CORP | | 1.88% | 2.36% | 1.15% | 2.25% | 2.74% | 1.71% | | |
| 110 | 1.5 | 58 BRSRX | BRG | BRIDGEWAY CAPITAL MGMT | | 1.72% | 4.37% | 4.26% | 1.45% | 0.99% | 3.29% | | |
| 111 | 0.89 | 50 SEGWX | FBB | BANKBOSTON N.A. | | 1.43% | 4.52% | 2.36% | 2.82% | 4.29% | 3.54% | | |
| 112 | 0.81 | 60 PNAPX | BLK | BLACKROCK INC | | 0.60% | 4.37% | 3.90% | 2.01% | 2.51% | 4.19% | | |
| 113 | 1.35 | 173 BEOOX | BER | BERGER ASSOCIATES INC | | -2.15% | 2.67% | 1.86% | 3.42% | 2.39% | 2.94% | | |
| 114 | 0.86 | 34 INNDX | IDS | IDS MUTUAL FUND GROUP | | 0.03% | 3.67% | 3.03% | 3.08% | 2.86% | 4.69% | | |
| 115 | 0.89 | 17 INIDX | IDS | IDS MUTUAL FUND GROUP | | 0.00% | 4.58% | 4.15% | 2.43% | 1.57% | 7.60% | | |
| 116 | 1.06 | 106 ASGX | ATL | ATLAS ADVISERS INC | | -0.52% | 4.16% | 4.46% | 1.51% | 1.28% | 4.33% | | |
| 117 | 0.92 | 57 AEQX | NCC | NATIONAL CITY BANK | | 2.03% | 2.43% | 1.65% | 1.89% | 2.93% | 2.98% | | |
| 118 | 1.02 | 74 OCAAX | OVB | ONE VALLEY BANK N.A. | | -1.62% | 4.49% | 2.00% | 2.68% | 4.01% | 6.43% | | |
| 119 | 1.08 | 71 GDGAX | CTZ | CITIZENS COMMERCIAL & SAVINGS | | 0.54% | 1.87% | 2.29% | 1.28% | 2.52% | 4.13% | | |
| 120 | 1 | 42 TWCUX | ACI | AMERICAN CENTURY INV INC | | -2.96% | 4.44% | 3.21% | 2.83% | 2.00% | 9.82% | | |
| 121 | 1 | 92 TWCUX | ACI | AMERICAN CENTURY INV INC | | -1.76% | 3.42% | 4.31% | 3.78% | 3.15% | 4.70% | | |
| 122 | 1.5 | 75 APGAX | ALL | ALLIANCE CAPITAL MGMT LP | | 2.73% | 3.11% | 3.82% | 4.10% | 5.67% | 7.61% | | |
| 123 | 1.05 | 32 MCGFX | CTT | CHICAGO TRUST COMPANY | | 2.35% | 2.60% | 3.54% | 3.48% | 3.82% | 5.95% | | |
| 124 | 1.06 | 29 CHTX | CTT | CHICAGO TRUST COMPANY | | 1.68% | 3.79% | 1.57% | 2.78% | 2.88% | 3.70% | | |
| 125 | 1.11 | 130 ALGRX | ALG | ALGER FRED MANAGEMENT INC | | -1.67% | 5.08% | 2.85% | 5.07% | 3.42% | 9.81% | | |
| 126 | 1.44 | 177 ALARX | ALG | ALGER FRED MANAGEMENT INC | | -3.17% | 8.87% | 6.79% | 6.18% | 4.11% | 14.21% | | |
| 127 | 1.03 | 124 WEINX | AIM | AIM ADVISORS INC | | -0.72% | 5.10% | 4.10% | 2.60% | 3.19% | 6.23% | | |
| 128 | 1.05 | 107 CHTRX | AIM | AIM ADVISORS INC | | 1.11% | 3.65% | 4.23% | 2.94% | 3.51% | 4.25% | | |
| 129 | 1.19 | 22 ABCAX | AIM | AIM ADVISORS INC | | 2.70% | 2.89% | 3.21% | 3.21% | 2.26% | 2.76% | | |
| 130 | 0.94 | 142 AEGRX | AET | AETNA LIFE INS & ANNTY | | 0.10% | 2.96% | 4.17% | 2.40% | 3.13% | 5.90% | | |
| 131 | 1.3 | 60 ADIOX | ADS | ADVANTUS CAPITAL MGMT | | 1.49% | 3.52% | 2.04% | 0.72% | 2.10% | 4.48% | | |
| 132 | 0.92 | 112 AGROX | ACS | ACCESSOR CAPITAL MGMT LP | | 2.30% | 3.61% | 2.98% | 3.77% | 4.31% | 3.05% | | |
| 133 | 1.06 | 65 RGTCX | ABN | ABN AMRO ASSET MGMT INC | | 0.87% | 4.85% | 2.39% | 2.52% | 3.59% | 4.14% | | |
| 134 | | | | | | | | | | | | | |
| 135 | | | | | | 0.70% | 3.63% | 2.94% | 2.31% | 3.12% | 5.14% | | |

Possible method to AC selection

Tracking TR

MF selection #3

MF selection #2

MF selection #1

1st 2 fund filters

rawdata

Fig. 6.5

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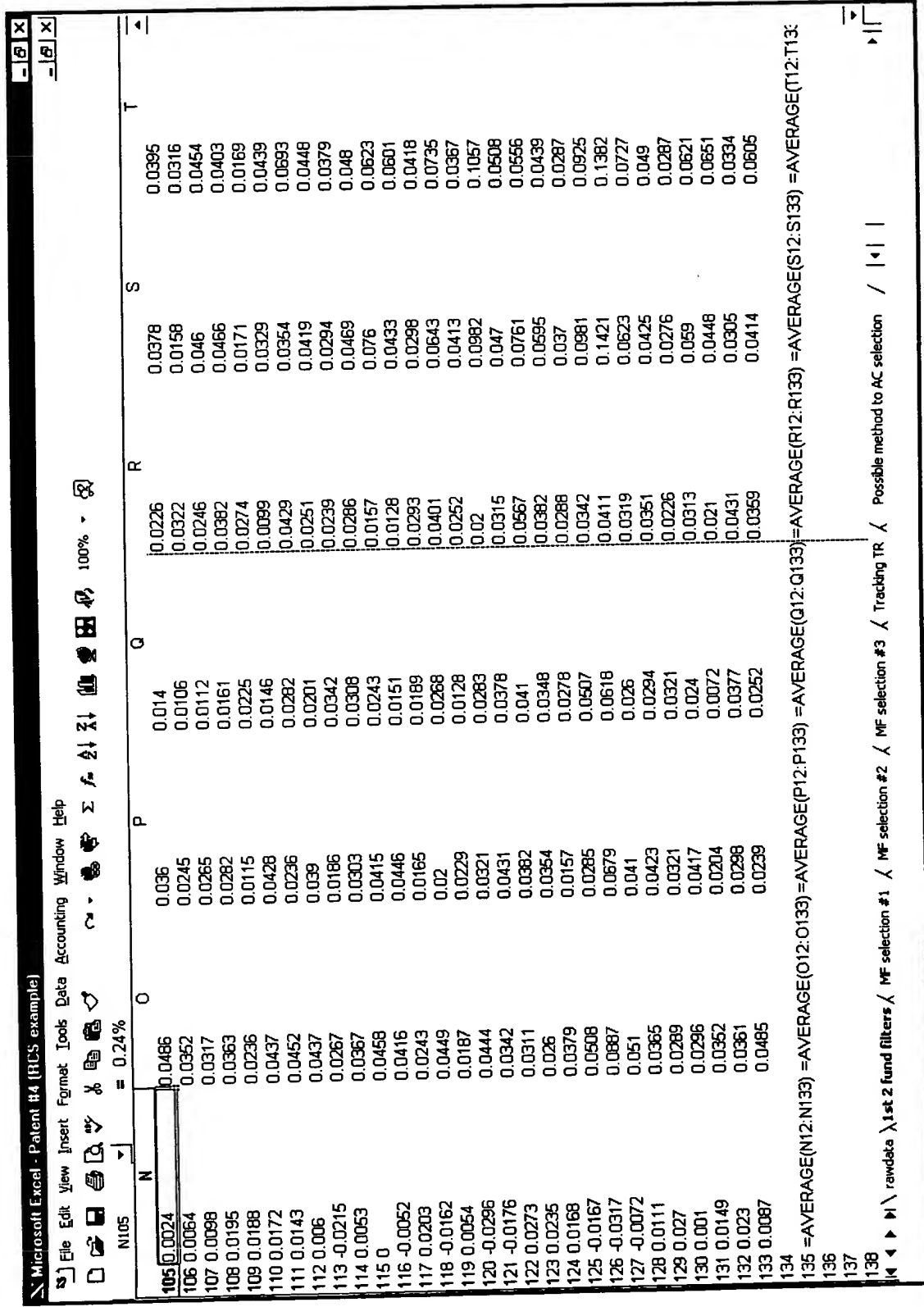


Fig. 6.6

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | |
|---|---|-----------|-----------|------------------------|---|---|---|--------|--------|--------|--------|--------|--------|--------|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | |
| = This worksheet is for calculating total returns net of the risk-free rate | | | | | | | | | | | | | | |
| A1 | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| 1 | This worksheet is for calculating total returns net of the risk-free rate | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | 1 month | LCGE | LCGE | | | | | | | | | | |
| 4 | | T-Bill | Large-Cap | Large-Cap Growth Funds | | | | | | | | | | |
| 5 | | | | minus | | | | | | | | | | |
| 6 | | risk-free | Average | risk-free | | | | | | | | | | |
| 7 | | rate | Equal Wtd | rate | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | 01/31/1995 | 0.47% | 0.70% | 0.23% | | | | 0.40% | 2.99% | 1.11% | 2.81% | 1.96% | 2.05% | 2.80% |
| 19 | 02/28/1995 | 0.48% | 3.63% | 3.15% | | | | 3.88% | 2.43% | 3.12% | 3.40% | 3.59% | 2.50% | 3.81% |
| 20 | 03/31/1995 | 0.48% | 2.94% | 2.46% | | | | 2.22% | 2.16% | 2.04% | 2.86% | 2.95% | 2.97% | 2.38% |
| 21 | 04/30/1995 | 0.48% | 2.31% | 1.83% | | | | 1.92% | 2.61% | 3.44% | 2.15% | 4.23% | 2.62% | 3.70% |
| 22 | 05/31/1995 | 0.47% | 3.12% | 2.64% | | | | 0.61% | 3.11% | 3.79% | 3.81% | 5.04% | 3.11% | 3.51% |
| 23 | 06/30/1995 | 0.48% | 5.14% | 4.67% | | | | 6.10% | 3.53% | 5.74% | 3.93% | 7.52% | 7.24% | 2.95% |
| 24 | 07/31/1995 | 0.46% | 5.22% | 4.76% | | | | 7.18% | 1.68% | 6.49% | 2.90% | 7.06% | 4.90% | 2.11% |
| 25 | 08/31/1995 | 0.46% | 0.50% | 0.05% | | | | 1.28% | -1.84% | 0.73% | 0.12% | 2.05% | 0.91% | -0.37% |
| 26 | 09/30/1995 | 0.45% | 3.34% | 2.89% | | | | 2.62% | 4.12% | 2.96% | 5.57% | 4.91% | 4.24% | 5.63% |
| 27 | 10/31/1995 | 0.44% | -0.85% | -1.28% | | | | -3.94% | 2.69% | -2.68% | 0.52% | 5.06% | -3.08% | 2.36% |
| 28 | 11/30/1995 | 0.44% | 3.06% | 2.62% | | | | 3.67% | 4.34% | 4.46% | 3.75% | 1.99% | 2.03% | 3.93% |
| 29 | 12/31/1995 | 0.44% | -0.40% | -0.85% | | | | -0.19% | -2.87% | 0.48% | -0.04% | -2.86% | -3.09% | 0.30% |
| 30 | 01/31/1996 | 0.43% | 2.47% | 2.04% | | | | -0.57% | 4.18% | 2.34% | 3.72% | 3.41% | 2.64% | 4.03% |
| 31 | 02/29/1996 | 0.42% | 2.39% | 1.97% | | | | 2.60% | 0.69% | 4.85% | 1.55% | 3.67% | 4.66% | 3.07% |
| 32 | 03/31/1996 | 0.41% | 0.26% | -0.15% | | | | 5.65% | 0.36% | 0.73% | 0.27% | -2.69% | 1.13% | -0.32% |
| 33 | 04/30/1996 | 0.41% | 3.22% | 2.81% | | | | 3.06% | 4.29% | 5.38% | 2.44% | 5.36% | 4.10% | 1.84% |
| 34 | 05/31/1996 | 0.42% | 2.96% | 2.55% | | | | 3.06% | 4.65% | 1.99% | 4.39% | 4.48% | 3.18% | 2.93% |
| Possible method to AC selection | | | | | | | | | | | | | | |

Fig. 7.1

009280" 22584960

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | |
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| 1 | DS | 116 | | | | | | | | | | | | |
| 2 | AIM Eq:W AIM Eq:Cr AIM Eq:Bli Aetna:Gron Advantus:Accessor:ABEN AMRO:Growth:CWT:Wilm:Wp Stewa WM:Growth Wilshire Tr:White Oak WellsFarg:Vanguard IVa | | | | | | | | | | | | | |
| 3 | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE |
| 4 | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap |
| 5 | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus |
| 6 | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free |
| 7 | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate |
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| 17 | | | | | | | | | | | | | | |
| 18 | -0.72% | 1.11% | 2.70% | 0.10% | 1.49% | 2.30% | 0.87% | -0.07% | 2.52% | 0.64% | 2.34% | 1.49% | 1.58% | 2.33% |
| 19 | 5.10% | 3.65% | 2.89% | 2.96% | 3.52% | 3.61% | 4.85% | 3.40% | 1.95% | 2.64% | 2.92% | 3.11% | 2.02% | 3.33% |
| 20 | 4.10% | 4.23% | 3.21% | 4.17% | 2.04% | 2.98% | 2.39% | 1.74% | 1.68% | 1.56% | 2.38% | 2.47% | 2.49% | 1.90% |
| 21 | 2.60% | 2.94% | 3.21% | 2.40% | 0.72% | 3.77% | 2.52% | 1.44% | 2.13% | 2.96% | 1.67% | 3.75% | 2.14% | 3.22% |
| 22 | 3.19% | 3.51% | 2.26% | 3.13% | 2.10% | 4.31% | 3.59% | 0.14% | 2.64% | 3.32% | 3.34% | 4.57% | 2.64% | 3.04% |
| 23 | 6.23% | 4.25% | 2.76% | 5.90% | 4.48% | 3.05% | 4.14% | 5.63% | 3.06% | 5.27% | 3.46% | 7.05% | 6.77% | 2.48% |
| 24 | 7.27% | 4.90% | 2.87% | 6.21% | 6.51% | 3.34% | 6.05% | 6.72% | 1.22% | 6.03% | 2.44% | 6.80% | 4.44% | 1.65% |
| 25 | 0.60% | 1.07% | -0.83% | 2.17% | -0.15% | -0.84% | 0.73% | 0.82% | -2.30% | 0.27% | -0.34% | 1.59% | 0.45% | -0.83% |
| 26 | 3.84% | 4.63% | 4.66% | 0.88% | 1.80% | 3.55% | 2.76% | 2.17% | 3.67% | 2.51% | 5.12% | 4.62% | 3.79% | 5.18% |
| 27 | -2.35% | -1.76% | -0.80% | -0.07% | -1.53% | 1.36% | -2.21% | -4.38% | 2.25% | -3.12% | 0.08% | 4.62% | -3.52% | 1.92% |
| 28 | 2.31% | 3.01% | 3.98% | 3.49% | 6.01% | 2.79% | 2.28% | 3.23% | 3.90% | 4.02% | 3.31% | 1.55% | 1.59% | 3.49% |
| 29 | -1.46% | -0.39% | 1.33% | -1.23% | -0.80% | -0.20% | 0.08% | -0.63% | -3.31% | 0.04% | -0.48% | -3.30% | -3.53% | -0.14% |
| 30 | 1.30% | 2.01% | 1.74% | 1.71% | 1.96% | 3.89% | 2.62% | -1.00% | 3.75% | 1.91% | 3.29% | 2.98% | 4.26% | 3.60% |
| 31 | 3.12% | 1.97% | 2.59% | 3.85% | 1.64% | 1.87% | 1.02% | 4.14% | 0.27% | 4.43% | 1.13% | 3.25% | 2.21% | 2.65% |
| 32 | 0.97% | 0.68% | 1.42% | 0.46% | 0.09% | -0.57% | 0.36% | 2.19% | -0.05% | 0.32% | -0.14% | -3.10% | 0.72% | -0.73% |
| 33 | 2.51% | 2.41% | 1.88% | 3.54% | 2.65% | 2.33% | 3.02% | 5.24% | 3.88% | 4.97% | 2.03% | 4.95% | 3.69% | 1.43% |
| 34 | 1.88% | 2.26% | 3.34% | 2.38% | 2.95% | 1.45% | 1.97% | 2.64% | 4.23% | 1.57% | 3.97% | 4.06% | 2.76% | 2.51% |

MF selection #1 / MF selection #2 / MF selection #3 / Trading TR / Possible method to AC selection

Fig. 7.2

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Microsoft Excel - Patent #4 (RCS example)

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| D550 = 6.16% | | | | | | | | | | | | | | | |
| DS | DT | DU | DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | |
| 50 | 6.16% | 5.96% | 5.78% | 4.30% | 5.14% | 4.16% | | 5.94% | 4.77% | 5.45% | 4.54% | 2.62% | 6.54% | 3.17% | |
| 51 | -4.50% | -3.64% | -5.13% | -4.03% | -3.36% | -2.91% | | -5.92% | -3.59% | -3.19% | -5.07% | -8.33% | -4.18% | -2.32% | |
| 52 | 1.85% | 1.72% | 3.68% | 5.36% | 5.40% | 2.07% | | 0.47% | 5.53% | -0.85% | 5.27% | 0.51% | 2.66% | 4.10% | |
| 53 | 0.75% | 0.27% | 1.62% | 3.96% | 0.68% | 0.82% | | 1.46% | 1.56% | -1.50% | 0.28% | -1.49% | 1.29% | 1.05% | |
| 54 | 0.75% | 0.65% | 1.22% | 0.70% | 3.57% | 1.58% | | -1.32% | 3.30% | 2.67% | 2.66% | 5.26% | 2.20% | 2.46% | |
| 55 | 7.63% | 6.21% | 6.87% | 9.11% | 7.25% | 8.67% | | 8.93% | 8.47% | 8.94% | 8.19% | 10.15% | 7.51% | 7.40% | |
| 56 | 4.17% | 4.64% | 4.60% | 4.51% | 4.50% | 4.50% | | 2.72% | 4.64% | 4.38% | 3.26% | -0.05% | 2.15% | 3.68% | |
| 57 | 1.74% | -0.07% | 3.55% | -0.08% | -0.16% | 0.24% | | 0.50% | -2.89% | 3.34% | -0.04% | 4.19% | 2.19% | 1.96% | |
| 58 | -2.06% | -2.70% | -2.31% | -2.20% | -1.16% | -2.32% | | -5.44% | -3.00% | -3.47% | -2.83% | -5.47% | -3.64% | -1.95% | |
| 59 | 5.18% | 4.96% | 4.85% | 8.24% | 7.93% | 5.96% | | 4.60% | 7.14% | 9.00% | 6.79% | 7.14% | 8.69% | 5.98% | |
| 60 | -0.51% | 0.14% | -0.77% | -0.20% | -0.12% | -1.26% | | -2.71% | -0.78% | -0.85% | -1.02% | -0.15% | -0.21% | -1.01% | |
| 61 | -16.86% | -16.36% | -15.15% | -15.10% | -13.67% | -16.67% | | -17.26% | -15.11% | -17.49% | -13.96% | -23.91% | -17.10% | -14.53% | |
| 62 | 6.11% | 5.19% | 5.72% | 9.26% | 7.77% | 4.56% | | 7.42% | 8.55% | 11.66% | 6.76% | 5.11% | 8.99% | 5.68% | |
| 63 | 5.35% | 8.38% | 8.10% | 3.49% | 7.27% | 6.83% | | 7.58% | 3.28% | 2.89% | 7.66% | 14.60% | 6.95% | 6.63% | |
| 64 | 7.41% | 6.53% | 6.39% | 5.54% | 7.31% | 7.51% | | 4.80% | 6.89% | 6.41% | 6.84% | 9.44% | 9.19% | 6.91% | |
| 65 | 13.15% | 9.20% | 8.21% | 8.35% | 10.89% | 10.13% | | 10.04% | 6.39% | 18.02% | 7.84% | 8.57% | 11.61% | 8.30% | |
| 66 | 6.00% | 5.30% | 3.86% | 6.23% | 3.21% | 7.34% | | 3.54% | 5.44% | 12.89% | 5.93% | 14.23% | 7.82% | 5.05% | |
| 67 | -4.90% | -3.76% | -3.55% | -4.66% | -5.71% | -3.45% | | -4.44% | -1.32% | -3.67% | -4.05% | -6.17% | -4.56% | -5.29% | |
| 68 | 6.00% | 6.78% | 4.93% | 5.59% | 6.09% | 2.62% | | 3.63% | 0.58% | 11.78% | 4.74% | 5.16% | 5.84% | 3.22% | |
| 69 | -0.30% | 1.43% | 1.10% | 0.33% | -0.19% | 1.39% | | -0.73% | -1.63% | 4.73% | -0.42% | -2.08% | 0.08% | -1.16% | |
| 70 | -1.70% | -2.69% | -2.95% | -2.43% | -4.14% | -3.09% | | -3.11% | -6.46% | -5.97% | -3.58% | -2.86% | -3.86% | -3.70% | |
| 71 | 7.00% | 7.26% | 6.29% | 8.78% | 6.36% | 7.09% | | 8.36% | 5.57% | 7.63% | 6.63% | 10.42% | 8.45% | 6.99% | |
| 72 | -2.70% | -3.75% | -2.77% | -1.08% | -3.55% | -5.43% | | -3.87% | -5.82% | -4.31% | -3.57% | -4.02% | -5.24% | -4.00% | |
| 73 | -0.63% | -0.06% | -0.79% | -0.27% | -0.10% | -2.01% | | 0.22% | -0.18% | 2.39% | 2.16% | 2.06% | -0.13% | 0.40% | |
| 74 | 0.78% | -1.28% | -0.98% | -1.57% | -1.81% | -2.66% | | -1.60% | -1.24% | 4.49% | -2.82% | -1.20% | -4.19% | -2.38% | |
| 75 | 4.50% | 5.93% | 7.02% | 4.74% | 7.29% | 8.31% | | 7.83% | 6.69% | 7.02% | 7.61% | 10.12% | 8.24% | 8.26% | |
| 76 | 6.85% | 4.20% | 4.26% | 4.36% | 3.24% | 2.12% | | 6.96% | -1.01% | 10.53% | 2.59% | 4.90% | 3.27% | 2.87% | |
| 77 | 10.65% | 11.50% | 8.63% | 10.26% | 9.29% | 6.65% | | 21.27% | 4.25% | 19.32% | 11.20% | 8.51% | 10.58% | 6.66% | |
| 78 | -3.62% | -3.68% | -3.30% | -4.45% | -6.81% | -5.79% | | -5.35% | -5.07% | -0.27% | -7.27% | 0.56% | -2.98% | -6.00% | |
| 79 | 15.33% | 3.37% | 1.57% | 7.42% | 2.69% | 4.63% | | 13.70% | -5.41% | 11.83% | 3.03% | 8.70% | 1.44% | 1.70% | |
| 80 | 2.27% | 8.75% | 8.85% | 7.41% | 8.01% | 8.96% | | 5.34% | 14.17% | 1.29% | 7.75% | 8.52% | 11.34% | 8.57% | |
| 81 | | | | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | | | | |

rowdata / 1st 2 fund filters MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection /

Fig. 7.5

009230" 22534950

Microsoft Excel - Patent #4 (RCS example)

File Edit View Insert Format Tools Data Accounting Window Help

=DL50-\$B50

| IES0 | IE | IF | IG | IH | II | IJ | IK | IL | IM | IN | IO | IP | IQ | IR | IS |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 50 | 5.16% | 6.49% | 6.26% | 4.63% | 2.34% | 4.95% | 5.39% | 5.73% | 5.53% | 5.47% | 5.35% | 3.87% | 4.71% | 3.73% | |
| 51 | -6.66% | -5.06% | -6.29% | -3.65% | -1.86% | -5.60% | -6.78% | -4.91% | -4.83% | -4.05% | -5.54% | -4.44% | -3.77% | -3.32% | |
| 52 | 1.65% | 0.77% | 2.11% | 1.49% | 3.04% | 1.07% | 1.03% | 1.44% | 1.31% | 3.27% | -0.06% | 4.97% | 4.99% | 1.66% | |
| 53 | 0.85% | -0.09% | 0.46% | 1.12% | 1.64% | -0.70% | -1.65% | 0.32% | -0.16% | 1.19% | -1.61% | 3.53% | 0.25% | 0.39% | |
| 54 | 1.33% | 1.99% | 4.35% | 1.81% | 1.01% | 0.85% | 0.60% | 0.32% | 0.22% | 0.79% | 1.24% | 0.27% | 3.14% | 1.15% | |
| 55 | 7.03% | 5.80% | 10.12% | 8.25% | 8.67% | 7.63% | 6.61% | 7.21% | 5.79% | 6.45% | 6.69% | 6.99% | 6.83% | 8.25% | |
| 56 | 5.60% | 5.43% | 3.53% | 1.39% | 4.26% | 5.60% | 4.80% | 3.74% | 4.21% | 4.17% | 5.53% | 4.08% | 4.07% | 4.07% | |
| 57 | 1.03% | 1.21% | 2.38% | 2.77% | -0.06% | 0.76% | 2.93% | 1.32% | -0.49% | 1.35% | 3.13% | -0.50% | -0.58% | -0.18% | |
| 58 | -2.13% | -2.80% | -2.13% | -2.63% | -3.43% | -1.59% | -1.82% | -2.48% | -3.12% | -2.73% | -3.28% | -2.62% | -1.58% | -2.74% | |
| 59 | 6.84% | 7.56% | 6.13% | 5.71% | 6.33% | 8.74% | 10.23% | 4.76% | 4.54% | 4.23% | 4.64% | 7.82% | 7.51% | 5.54% | |
| 60 | 0.23% | -1.10% | 1.85% | -2.29% | -1.99% | 2.55% | 1.01% | -0.93% | -0.28% | -1.19% | -1.32% | -0.62% | -0.54% | -1.68% | |
| 61 | -18.67% | -14.41% | -18.69% | -15.71% | -16.98% | -17.08% | -18.13% | -17.27% | -16.77% | -15.56% | -17.72% | -15.51% | -14.08% | -17.08% | |
| 62 | 6.81% | 7.34% | 4.76% | 2.75% | 10.38% | 8.16% | 14.35% | 5.70% | 4.78% | 5.31% | 9.44% | 8.85% | 7.36% | 4.15% | |
| 63 | 3.63% | 2.43% | 9.74% | 9.30% | 8.08% | 4.62% | 3.67% | 4.96% | 7.99% | 7.71% | 3.10% | 4.61% | 6.88% | 6.44% | |
| 64 | 5.84% | 5.94% | 5.47% | 6.61% | 3.95% | 7.26% | 9.57% | 7.07% | 6.19% | 6.05% | 5.20% | 6.28% | 6.97% | 7.17% | |
| 65 | 11.02% | 9.90% | 12.10% | 7.84% | 8.95% | 12.10% | 15.94% | 12.78% | 8.83% | 7.84% | 12.53% | 7.98% | 10.52% | 9.76% | |
| 66 | 6.70% | 6.05% | 9.32% | 5.47% | 3.88% | 6.92% | 12.10% | 5.64% | 4.94% | 3.50% | 5.87% | 2.85% | 6.98% | 1.34% | |
| 67 | -3.10% | -5.52% | -4.94% | -3.83% | -2.30% | -3.22% | -2.14% | -5.26% | -4.12% | -3.91% | -5.02% | -6.07% | -4.55% | -3.81% | |
| 68 | 5.55% | 5.87% | 4.11% | 5.21% | 4.02% | 6.87% | 13.51% | 5.63% | 6.41% | 4.56% | 5.22% | 5.09% | 5.72% | 2.25% | |
| 69 | -0.88% | -1.01% | -1.96% | -1.33% | 3.39% | -0.24% | 3.59% | -0.66% | 1.07% | 0.74% | -0.03% | -0.55% | -1.57% | 1.03% | |
| 70 | -2.90% | -3.16% | -4.14% | -2.19% | -4.30% | -4.90% | -5.36% | -2.06% | -3.05% | -3.31% | -2.79% | -4.06% | -4.50% | -3.45% | |
| 71 | 4.77% | 6.63% | 8.94% | 4.22% | 6.15% | 9.68% | 7.68% | 6.62% | 6.88% | 5.91% | 8.40% | 7.84% | 5.97% | 6.71% | |
| 72 | -3.68% | -2.94% | -3.55% | -2.29% | -4.55% | -4.04% | -3.83% | -3.08% | -4.13% | -3.15% | -1.46% | -3.68% | -3.93% | -5.81% | |
| 73 | -0.77% | 1.29% | -1.13% | 1.88% | -0.57% | -2.01% | 3.06% | -1.01% | -0.44% | -1.17% | -0.65% | 0.81% | -0.48% | -2.39% | |
| 74 | -1.53% | -1.14% | -1.95% | -5.80% | -0.36% | -0.95% | 1.26% | 0.38% | -1.68% | -1.38% | -2.63% | -1.97% | -2.21% | -3.06% | |
| 75 | 8.53% | 6.40% | 7.26% | 7.00% | 2.93% | 5.53% | 5.43% | 4.11% | 5.54% | 6.53% | 4.35% | 4.89% | 6.90% | 7.92% | |
| 76 | 4.70% | 5.44% | 2.28% | 4.75% | 1.47% | 5.71% | 11.82% | 6.44% | 3.79% | 2.82% | 3.85% | 3.94% | 2.83% | 1.71% | |
| 77 | 14.97% | 8.93% | 8.54% | 3.81% | 7.64% | 8.20% | 16.20% | 10.23% | 11.08% | 8.21% | 12.20% | 9.84% | 8.87% | 6.23% | |
| 78 | -6.75% | -2.92% | -5.12% | -5.95% | -4.31% | -3.17% | -3.37% | -4.06% | -4.12% | -3.74% | -4.89% | -5.54% | -7.25% | -6.23% | |
| 79 | 3.73% | 5.98% | -0.97% | -5.03% | -2.46% | 4.44% | 16.58% | 14.89% | 2.93% | 1.13% | 6.98% | 7.37% | 2.25% | 4.19% | |
| 80 | 9.39% | 6.64% | 12.08% | 7.29% | 7.80% | 8.11% | 1.20% | 1.81% | 8.29% | 8.39% | 6.95% | 5.55% | 7.55% | 8.50% | |

rawdata / 1st 2 fund filters / MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection

rawdata / 1st 2 fund filters / MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection /

Fig. 7.6

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | |
|--|--------------------------|---|--------------------------------|---|---|---|---|-----------------------------------|--|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | |
| = This worksheet is for calculating total returns net of the risk-free rate | | | | | | | | | |
| A1 | B | C | D | E | F | G | H | | |
| 1 | This worksheet is for ca | | | | | | 1 | WT:Wilm L; LCGE Large-Cap (| |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | 1 month | LCGE | LCGE | | | | | | |
| 7 | T-Bill | Large-Cap Growth Fui | Large-Cap Growth Fui | | | | | | |
| 8 | risk-free | minus | risk-free | | | | | | |
| 9 | rate | Average | rate | | | | | | |
| 10 | | Equal Wtd. | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | 01/31/1995 | 0.0047 | 0.0069672131147541 = C18-\$B18 | | | | | 0.004 | |
| 19 | 02/28/1995 | 0.004841666666666666; 0.0362959016393442 = C19-\$B19 | | | | | | 0.0388 | |
| 20 | 03/31/1995 | 0.004833333333333333; 0.0294385245901639 = C20-\$B20 | | | | | | 0.0222 | |
| 21 | 04/30/1995 | 0.004775 | 0.0230622950819672 = C21-\$B21 | | | | | 0.0192 | |
| 22 | 05/31/1995 | 0.004725 | 0.0311573770491803 = C22-\$B22 | | | | | 0.0061 | |
| 23 | 06/30/1995 | 0.00475 | 0.0514172131147541 = C23-\$B23 | | | | | 0.061 | |
| 24 | 07/31/1995 | 0.004563333333333333; 0.052205737704918 = C24-\$B24 | | | | | | 0.0718 | |
| 25 | 08/31/1995 | 0.004558333333333333; 0.0050155737704918 = C25-\$B25 | | | | | | 0.0128 | |
| 26 | 09/30/1995 | 0.004508333333333333; 0.033444262295082 = C26-\$B26 | | | | | | 0.0262 | |
| 27 | 10/31/1995 | 0.004383333333333333; -0.0084540983606557 = C27-\$B27 | | | | | | -0.0394 | |
| 28 | 11/30/1995 | 0.004416666666666666; 0.0306270491803278 = C28-\$B28 | | | | | | 0.0367 | |
| 29 | 12/31/1995 | 0.004433333333333333; -0.0040213114754098 = C29-\$B29 | | | | | | -0.0019 | |
| 30 | 01/31/1996 | 0.0043 | 0.0247131147540984 = C30-\$B30 | | | | | -0.0057 | |
| 31 | 02/29/1996 | 0.004183333333333333; 0.0238991803278689 = C31-\$B31 | | | | | | 0.0456 | |
| 32 | 03/31/1996 | 0.004058333333333333; 0.00255 = C32-\$B32 | | | | | | 0.026 | |
| 33 | 04/30/1996 | 0.004133333333333333; 0.0321959016393443 = C33-\$B33 | | | | | | 0.0565 | |
| 34 | 05/31/1996 | 0.004158333333333333; 0.0296311475409836 = C34-\$B34 | | | | | | 0.0306 | |
| 1st 2 fund filters \ MF selection #1 \ MF selection #2 \ MF selection #3 \ Tracking TR \ Possible method to AC selection / | | | | | | | | | |

Fig. 7.7

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| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|--|--|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | |
| DZ1 DZ2 100% 100% | | | | | | | | | |
| = | | | | | | | | | |
| EA EB EC ED EE EF EG | | | | | | | | | |
| 1 | DZ | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | =H3 | =I3 | =J3 | =K3 | =L3 | =M3 | =N3 | | |
| 4 | =H4 | =I4 | =J4 | =K4 | =L4 | =M4 | =N4 | | |
| 5 | =H5 | =I5 | =J5 | =K5 | =L5 | =M5 | =N5 | | |
| 6 | minus | minus | minus | minus | minus | minus | minus | | |
| 7 | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | | |
| 8 | rate | rate | rate | rate | rate | rate | rate | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | =H18-\$B18 | =I18-\$B18 | =J18-\$B18 | =K18-\$B18 | =L18-\$B18 | =M18-\$B18 | =N18-\$B18 | | |
| 19 | =H19-\$B19 | =I19-\$B19 | =J19-\$B19 | =K19-\$B19 | =L19-\$B19 | =M19-\$B19 | =N19-\$B19 | | |
| 20 | =H20-\$B20 | =I20-\$B20 | =J20-\$B20 | =K20-\$B20 | =L20-\$B20 | =M20-\$B20 | =N20-\$B20 | | |
| 21 | =H21-\$B21 | =I21-\$B21 | =J21-\$B21 | =K21-\$B21 | =L21-\$B21 | =M21-\$B21 | =N21-\$B21 | | |
| 22 | =H22-\$B22 | =I22-\$B22 | =J22-\$B22 | =K22-\$B22 | =L22-\$B22 | =M22-\$B22 | =N22-\$B22 | | |
| 23 | =H23-\$B23 | =I23-\$B23 | =J23-\$B23 | =K23-\$B23 | =L23-\$B23 | =M23-\$B23 | =N23-\$B23 | | |
| 24 | =H24-\$B24 | =I24-\$B24 | =J24-\$B24 | =K24-\$B24 | =L24-\$B24 | =M24-\$B24 | =N24-\$B24 | | |
| 25 | =H25-\$B25 | =I25-\$B25 | =J25-\$B25 | =K25-\$B25 | =L25-\$B25 | =M25-\$B25 | =N25-\$B25 | | |
| 26 | =H26-\$B26 | =I26-\$B26 | =J26-\$B26 | =K26-\$B26 | =L26-\$B26 | =M26-\$B26 | =N26-\$B26 | | |
| 27 | =H27-\$B27 | =I27-\$B27 | =J27-\$B27 | =K27-\$B27 | =L27-\$B27 | =M27-\$B27 | =N27-\$B27 | | |
| 28 | =H28-\$B28 | =I28-\$B28 | =J28-\$B28 | =K28-\$B28 | =L28-\$B28 | =M28-\$B28 | =N28-\$B28 | | |
| 29 | =H29-\$B29 | =I29-\$B29 | =J29-\$B29 | =K29-\$B29 | =L29-\$B29 | =M29-\$B29 | =N29-\$B29 | | |
| 30 | =H30-\$B30 | =I30-\$B30 | =J30-\$B30 | =K30-\$B30 | =L30-\$B30 | =M30-\$B30 | =N30-\$B30 | | |
| 31 | =H31-\$B31 | =I31-\$B31 | =J31-\$B31 | =K31-\$B31 | =L31-\$B31 | =M31-\$B31 | =N31-\$B31 | | |
| 32 | =H32-\$B32 | =I32-\$B32 | =J32-\$B32 | =K32-\$B32 | =L32-\$B32 | =M32-\$B32 | =N32-\$B32 | | |
| 33 | =H33-\$B33 | =I33-\$B33 | =J33-\$B33 | =K33-\$B33 | =L33-\$B33 | =M33-\$B33 | =N33-\$B33 | | |
| 34 | =H34-\$B34 | =I34-\$B34 | =J34-\$B34 | =K34-\$B34 | =L34-\$B34 | =M34-\$B34 | =N34-\$B34 | | |

rawdata / 1st 2 fund filters / MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection

Fig. 7.8

009230" 22524360

Microsoft Excel - Patent #4 (RCS example)

File Edit View Insert Format Tools Data Accounting Window Help

This worksheet is for calculating rolling 2 year alphas

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | |
|----|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| 1 | This worksheet is for calculating α | | | | | | | | | | | | | | | 12 |
| 2 | WT:Wilm I Wp Stewa WM:Growth Wilshire Ti White Oak Wells Farg: Vanguard I Vanguard Value Line Value Line Universal (United Var U. | | | | | | | | | | | | | | | |
| 3 | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | LCGE | |
| 4 | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | Large-Cap | |
| 5 | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | minus | |
| 6 | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | risk-free | |
| 7 | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | rate | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | 01/31/1995 | 0.23% | -0.07% | 2.52% | 0.64% | 2.34% | 1.49% | 1.58% | 2.33% | 2.06% | -0.04% | -0.19% | -1.81% | -1.32% | | |
| 19 | 02/28/1995 | 3.15% | 3.40% | 1.95% | 2.64% | 2.92% | 3.11% | 2.02% | 3.33% | 3.32% | 5.06% | 4.03% | 6.80% | 1.38% | | |
| 20 | 03/31/1995 | 2.46% | 1.74% | 1.68% | 1.56% | 2.38% | 2.47% | 2.49% | 1.90% | 2.63% | 1.84% | 3.44% | 1.49% | 1.34% | | |
| 21 | 04/30/1995 | 1.83% | 1.44% | 2.13% | 2.96% | 1.67% | 3.75% | 2.14% | 3.22% | 2.19% | 1.99% | 1.19% | 2.85% | 2.27% | | |
| 22 | 05/31/1995 | 2.64% | 0.14% | 2.64% | 3.32% | 3.34% | 4.57% | 2.64% | 3.04% | 3.09% | 2.48% | 1.04% | 2.08% | 1.54% | | |
| 23 | 06/30/1995 | 4.67% | 5.63% | 3.06% | 5.27% | 3.46% | 7.05% | 6.77% | 2.48% | 3.30% | 6.28% | 3.26% | 8.66% | 7.55% | | |
| 24 | 07/31/1995 | 4.76% | 6.72% | 1.22% | 6.03% | 2.44% | 6.80% | 4.44% | 1.65% | 2.78% | 7.31% | 5.12% | 4.23% | 6.00% | | |
| 25 | 08/31/1995 | 0.05% | 0.82% | -2.30% | 0.27% | -0.34% | 1.59% | 0.45% | -0.83% | -0.77% | 0.39% | 0.90% | 0.24% | 0.00% | | |
| 26 | 09/30/1995 | 2.89% | 2.17% | 3.67% | 2.51% | 5.12% | 4.46% | 3.79% | 5.18% | 4.43% | 2.99% | 2.36% | 2.92% | 1.83% | | |
| 27 | 10/31/1995 | -1.28% | -4.38% | 2.25% | -3.12% | 0.08% | 4.62% | -3.52% | 1.92% | 0.39% | -1.04% | -1.59% | -2.59% | -1.11% | | |
| 28 | 11/30/1995 | 2.62% | 3.23% | 3.90% | 4.02% | 3.31% | 1.55% | 1.59% | 3.49% | 3.15% | 3.04% | 3.53% | 2.76% | 2.14% | | |
| 29 | 12/31/1995 | -0.85% | -0.63% | -3.31% | 0.04% | -0.48% | -3.30% | -3.53% | -0.14% | 0.72% | -3.40% | -0.23% | 0.74% | -4.33% | | |
| 30 | 01/31/1996 | 2.04% | -1.00% | 3.75% | 1.91% | 3.29% | 2.98% | 2.21% | 3.60% | 3.36% | 3.89% | 2.18% | 1.60% | 2.22% | | |
| 31 | 02/29/1996 | 1.97% | 4.14% | 0.27% | 4.43% | 1.13% | 3.25% | 4.26% | 2.65% | 0.48% | 2.67% | 3.01% | 1.02% | 0.64% | | |
| 32 | 03/31/1996 | -0.15% | 2.19% | -0.05% | 0.32% | -0.14% | -3.10% | 0.72% | -0.73% | -0.83% | -0.48% | 1.94% | 1.01% | -2.73% | | |
| 33 | 04/30/1996 | 2.81% | 5.24% | 3.88% | 4.97% | 2.03% | 4.95% | 3.69% | 1.43% | 1.46% | 2.66% | 3.25% | 4.00% | 3.51% | | |
| 34 | 05/31/1996 | 2.55% | 2.64% | 4.23% | 1.57% | 3.97% | 4.06% | 2.76% | 2.51% | 3.18% | 3.76% | 2.15% | 3.80% | 0.61% | | |
| | | | | | | | | | | | | | | | | |

MF selection #1

MF selection #2

MF selection #3

Tracking TR

Possible method to AC selection

Fig. 8.1

[illegible]

Fig. 8.2

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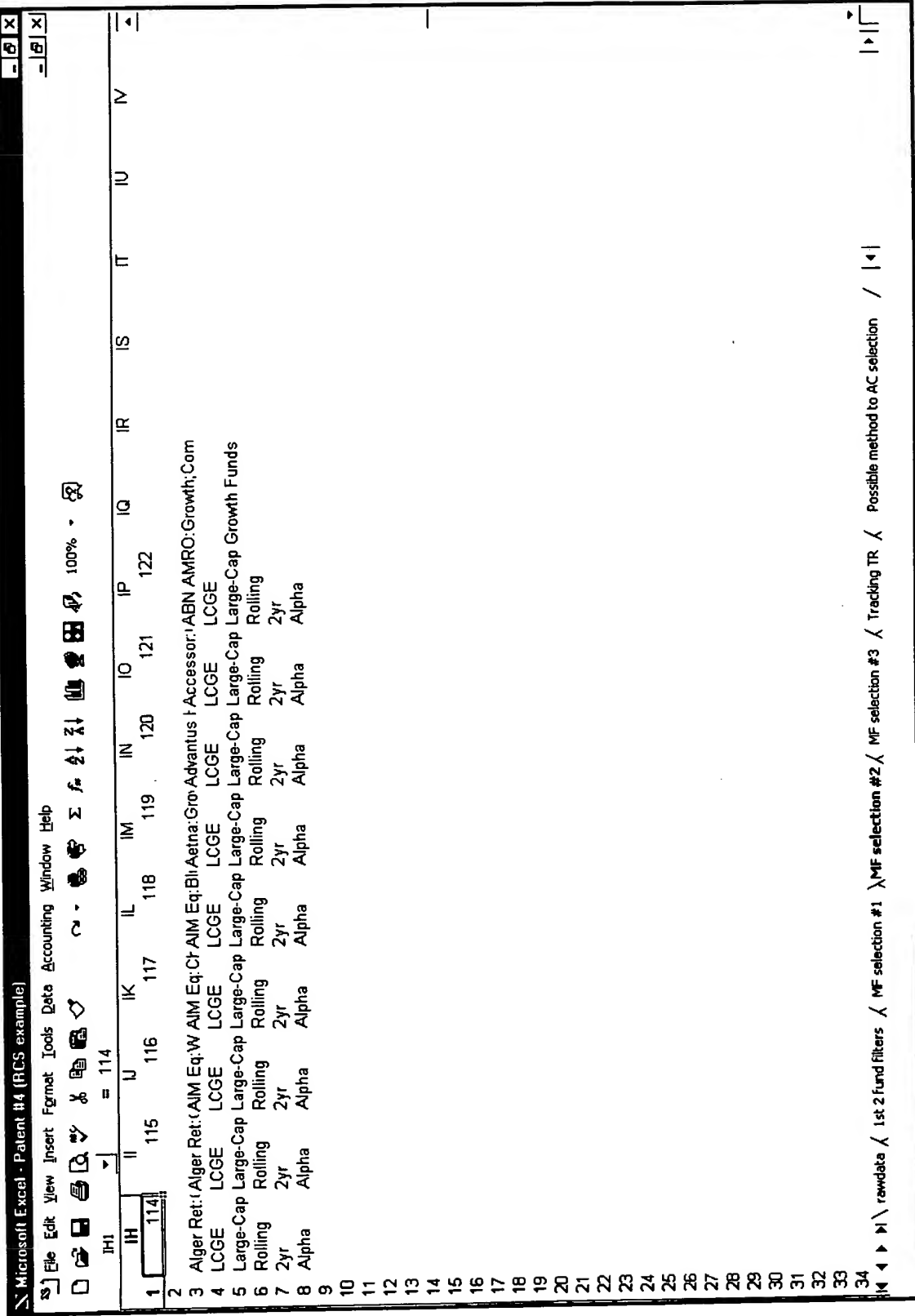


Fig. 8.3

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | | |
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| ASO = 09/30/1997 | | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | |
| 50 09/30/1997 | 4.99% | | 5.94% | 4.77% | 5.45% | 4.54% | 2.62% | 6.54% | 3.17% | 4.65% | 5.27% | 4.25% | 4.08% | 3.57% | |
| 51 10/31/1997 | -4.09% | | -5.92% | -3.59% | -3.19% | -5.07% | -8.33% | -4.18% | -2.32% | -3.40% | -4.53% | -1.92% | -1.41% | -6.12% | |
| 52 11/30/1997 | 1.78% | | 0.47% | 5.53% | -0.85% | 5.27% | 0.51% | 2.66% | 4.10% | 5.00% | 1.91% | -1.13% | 2.16% | 1.80% | |
| 53 12/31/1997 | 0.68% | | 1.46% | 1.56% | -1.50% | 0.28% | -1.49% | 1.29% | 1.05% | 0.77% | -1.17% | -0.59% | 1.75% | 1.78% | |
| 54 01/31/1998 | 1.05% | | -1.32% | 3.30% | 2.67% | 2.66% | 5.26% | 2.20% | 2.46% | 2.94% | -0.23% | -2.87% | -0.38% | -0.01% | |
| 55 02/28/1998 | 7.41% | | 8.93% | 8.47% | 8.94% | 8.19% | 10.15% | 7.51% | 7.40% | 6.49% | 10.63% | 6.28% | 7.79% | 6.01% | |
| 56 03/31/1998 | 4.16% | | 2.72% | 4.64% | 4.38% | 3.26% | -0.05% | 2.15% | 3.68% | 4.71% | 2.80% | 4.23% | 2.20% | 2.46% | |
| 57 04/30/1998 | 1.17% | | 0.50% | -2.89% | 3.34% | -0.04% | 4.19% | 2.19% | 1.96% | 0.42% | 2.12% | 2.15% | 1.70% | 1.50% | |
| 58 05/31/1998 | -3.07% | | -5.44% | -3.00% | -3.47% | -2.83% | -5.47% | -3.64% | -1.95% | -2.43% | -3.24% | -4.79% | -4.23% | -1.67% | |
| 59 06/30/1998 | 5.83% | | 4.60% | 7.14% | 9.00% | 6.79% | 7.14% | 8.69% | 5.98% | 6.71% | 6.97% | 4.17% | 5.95% | 4.78% | |
| 60 07/31/1998 | -1.11% | | -2.71% | -0.78% | -0.85% | -1.02% | -0.15% | -0.21% | -1.01% | -0.46% | -2.50% | -4.33% | -2.49% | -1.14% | |
| 61 08/31/1998 | -16.87% | | -17.26% | -15.11% | -17.49% | -13.96% | -23.91% | -17.10% | -14.53% | -13.45% | -17.83% | -17.49% | -18.13% | -15.23% | |
| 62 09/30/1998 | 7.09% | | 7.42% | 8.55% | 11.68% | 6.76% | 5.11% | 8.99% | 5.68% | 6.29% | 6.83% | 8.57% | 9.95% | 6.58% | |
| 63 10/31/1998 | 5.92% | | 7.58% | 3.28% | 2.89% | 7.66% | 14.60% | 6.95% | 6.63% | 8.02% | 7.39% | 4.21% | 2.16% | 4.28% | |
| 64 11/30/1998 | 6.63% | | 4.80% | 6.89% | 6.41% | 6.84% | 9.44% | 9.19% | 6.91% | 6.44% | 6.68% | 5.03% | 6.64% | 8.07% | |
| 65 12/31/1998 | 10.43% | | 10.04% | 6.39% | 18.02% | 7.84% | 8.57% | 11.61% | 8.30% | 7.30% | 13.18% | 12.03% | 10.06% | 9.41% | |
| 66 01/31/1999 | 6.50% | | 3.54% | 5.44% | 12.89% | 5.93% | 14.23% | 7.82% | 5.05% | 5.80% | 7.94% | 6.66% | 7.15% | 6.81% | |
| 67 02/28/1999 | -4.53% | | -4.44% | -1.32% | -3.67% | -4.05% | -6.17% | -4.56% | -5.29% | -4.29% | -4.44% | -4.07% | -6.54% | -5.32% | |
| 68 03/31/1999 | 5.78% | | 3.63% | 0.58% | 11.78% | 4.74% | 5.16% | 5.84% | 3.22% | 4.45% | 6.09% | 6.14% | 6.22% | 6.88% | |
| 69 04/30/1999 | -0.15% | | -0.73% | -1.63% | 4.73% | -0.42% | -2.08% | 0.08% | -1.16% | -0.57% | -0.98% | -0.56% | 4.57% | -2.65% | |
| 70 05/31/1999 | -3.66% | | -3.11% | -6.46% | -5.97% | -3.58% | -2.86% | -3.86% | -3.70% | -3.31% | -5.06% | -4.51% | -1.94% | -4.84% | |
| 71 06/30/1999 | 6.92% | | 8.36% | 5.57% | 7.63% | 6.63% | 10.42% | 8.45% | 6.99% | 6.90% | 7.47% | 7.15% | 5.78% | 10.06% | |
| 72 07/31/1999 | -3.54% | | -3.87% | -5.82% | -4.31% | -3.57% | -4.02% | -5.24% | -4.00% | -3.53% | -2.98% | -2.61% | -5.37% | -3.66% | |
| 73 08/31/1999 | 0.00% | | 0.22% | -0.18% | 2.39% | 2.16% | 2.06% | -0.13% | 0.40% | 0.95% | -0.32% | -1.30% | -0.72% | -0.28% | |
| 74 09/30/1999 | -1.25% | | -1.60% | -1.24% | 4.49% | -2.82% | -1.20% | -4.19% | -2.38% | -2.09% | -1.75% | -1.73% | -4.59% | 0.30% | |
| 75 10/31/1999 | 6.69% | | 7.83% | 6.69% | 7.02% | 7.61% | 10.12% | 8.24% | 8.26% | 6.51% | 5.90% | 4.64% | 3.53% | 5.84% | |
| 76 11/30/1999 | 5.21% | | 6.96% | -1.01% | 10.53% | 2.59% | 4.90% | 3.27% | 2.87% | 3.87% | 4.69% | 4.77% | 2.97% | 6.67% | |
| 77 12/31/1999 | 11.52% | | 21.27% | 4.25% | 19.32% | 11.20% | 8.51% | 10.58% | 6.66% | 7.37% | 7.53% | 5.90% | 4.06% | 14.83% | |
| 78 01/31/2000 | -4.27% | | -5.35% | -5.07% | -0.27% | -7.27% | 0.56% | -2.98% | -6.00% | -7.11% | -6.30% | -6.23% | -4.47% | -3.20% | |
| 79 02/29/2000 | 6.37% | | 13.70% | -5.41% | 11.83% | 3.03% | 8.70% | 1.44% | 1.70% | 1.63% | 1.39% | 1.42% | 0.23% | 15.18% | |
| 80 03/31/2000 | 5.14% | | 5.34% | 14.17% | 1.29% | 7.75% | 8.52% | 11.34% | 8.57% | 8.75% | 10.57% | 8.63% | 8.42% | 4.67% | |
| 81 | | | | | | | | | | | | | | | |
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rawdata / 1st 2 fund filters / MF selection #1 / MF selection #2 / MF selection #3 / Tracking TR / Possible method to AC selection

Fig. 8.4

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| Microsoft Excel - Patent 14 (RCS example) | | | | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|----|--------|----|--------|--------|--------|--------|--------|--------|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | | |
| DP50 5.5325% | | | | | | | | | | | | | | | |
| | DP | DQ | DR | DS | DT | DU | DV | DW | DX | DY | EZ | EA | EB | EC | ED |
| 50 | 5.53% | 5.47% | 5.35% | 3.87% | 4.71% | 3.73% | | 16.34% | | 0.26% | 0.47% | -0.54% | 0.43% | 0.40% | -0.10% |
| 51 | -4.83% | -4.05% | -5.54% | -4.44% | -3.77% | -3.32% | | 16.48% | | 0.30% | 0.28% | -0.39% | 0.30% | -0.10% | 0.04% |
| 52 | 1.31% | 3.27% | -0.06% | 4.97% | 4.99% | 1.66% | | 15.02% | | 0.22% | 0.36% | -0.55% | 0.41% | -0.10% | 0.11% |
| 53 | -0.16% | 1.19% | -1.61% | 3.53% | 0.25% | 0.39% | | 12.86% | | 0.25% | 0.55% | -0.69% | 0.38% | -0.10% | 0.26% |
| 54 | 0.22% | 0.79% | 1.24% | 0.27% | 3.14% | 1.15% | | 12.48% | | 0.27% | 0.57% | -0.61% | 0.39% | 0.06% | 0.31% |
| 55 | 5.79% | 6.45% | 8.69% | 6.99% | 6.83% | 8.25% | | 14.10% | | 0.22% | 0.69% | -0.69% | 0.45% | 0.03% | 0.22% |
| 56 | 4.21% | 4.17% | 5.53% | 4.08% | 4.07% | 4.07% | | 13.08% | | 0.06% | 0.74% | -0.72% | 0.43% | -0.01% | 0.10% |
| 57 | -0.49% | 1.35% | 3.13% | -0.50% | -0.58% | -0.18% | | 14.53% | | -0.06% | 0.51% | -0.70% | 0.40% | 0.06% | 0.11% |
| 58 | -3.12% | -2.73% | -3.28% | -2.62% | -1.58% | -2.74% | | 15.93% | | -0.20% | 0.39% | -0.67% | 0.36% | -0.05% | 0.09% |
| 59 | 4.54% | 4.23% | 4.64% | 7.82% | 7.51% | 5.54% | | 14.93% | | -0.12% | 0.38% | -0.44% | 0.30% | -0.06% | 0.16% |
| 60 | -0.28% | -1.19% | -1.32% | -0.62% | -0.54% | -1.68% | | 13.22% | | -0.16% | 0.18% | -0.37% | 0.21% | -0.30% | 0.12% |
| 61 | -16.77% | -15.56% | -17.72% | -15.51% | -14.08% | -17.08% | | 11.66% | | -0.31% | 0.20% | -0.50% | 0.49% | -0.27% | 0.35% |
| 62 | 4.78% | 5.31% | 9.44% | 8.85% | 7.36% | 4.15% | | 12.76% | | -0.30% | 0.23% | -0.35% | 0.48% | -0.42% | 0.33% |
| 63 | 7.99% | 7.71% | 3.10% | 4.61% | 6.88% | 6.44% | | 10.62% | | -0.12% | 0.22% | -0.28% | 0.54% | -0.19% | 0.42% |
| 64 | 6.19% | 6.05% | 5.20% | 6.28% | 6.97% | 7.17% | | 10.62% | | -0.18% | 0.25% | -0.20% | 0.50% | -0.34% | 0.50% |
| 65 | 8.83% | 7.84% | 12.53% | 7.98% | 10.52% | 9.76% | | 13.17% | | -0.34% | 0.09% | -0.15% | 0.48% | -0.42% | 0.45% |
| 66 | 4.94% | 3.50% | 5.87% | 2.85% | 6.98% | 1.34% | | 14.34% | | -0.32% | 0.18% | 0.09% | 0.42% | -0.27% | 0.43% |
| 67 | -4.12% | -3.91% | -5.02% | -6.07% | -4.55% | -3.81% | | 13.70% | | -0.24% | 0.26% | 0.29% | 0.35% | -0.13% | 0.45% |
| 68 | 6.41% | 4.56% | 5.22% | 5.09% | 5.72% | 2.25% | | 16.88% | | -0.32% | 0.12% | 0.50% | 0.33% | -0.31% | 0.54% |
| 69 | 1.07% | 0.74% | -0.03% | -0.55% | -1.57% | 1.03% | | 15.61% | | -0.31% | -0.08% | 0.89% | 0.21% | -0.35% | 0.47% |
| 70 | -3.05% | -3.31% | -2.79% | -4.06% | -4.50% | -3.45% | | 14.49% | | -0.42% | -0.18% | 0.81% | 0.21% | -0.27% | 0.46% |
| 71 | 6.88% | 5.91% | 8.40% | 7.84% | 5.97% | 6.71% | | 13.34% | | -0.46% | -0.19% | 0.83% | 0.20% | -0.21% | 0.46% |
| 72 | -4.13% | -3.15% | -1.46% | -3.68% | -3.93% | -5.81% | | 13.62% | | -0.40% | -0.29% | 0.88% | 0.19% | -0.26% | 0.41% |
| 73 | -0.44% | -1.17% | -0.65% | 0.81% | -0.48% | -2.39% | | 14.40% | | -0.61% | -0.15% | 0.97% | 0.39% | -0.28% | 0.42% |
| 74 | -1.68% | -1.38% | -2.63% | -1.97% | -2.21% | -3.06% | | 17.45% | | -0.65% | -0.17% | 1.26% | 0.31% | -0.12% | 0.25% |
| 75 | 5.54% | 6.63% | 4.35% | 4.89% | 6.90% | 7.92% | | 18.92% | | -0.54% | -0.15% | 1.16% | 0.44% | 0.08% | 0.26% |
| 76 | 3.79% | 2.82% | 3.85% | 3.94% | 2.83% | 1.71% | | 21.04% | | -0.43% | -0.51% | 1.45% | 0.22% | 0.09% | 0.15% |
| 77 | 11.08% | 8.21% | 12.20% | 9.84% | 8.87% | 6.23% | | 27.37% | | -0.32% | -0.67% | 1.69% | 0.25% | 0.09% | 0.09% |
| 78 | -4.12% | -3.74% | -4.89% | -5.54% | -7.25% | -6.23% | | 24.65% | | -0.24% | -0.86% | 1.89% | -0.02% | 0.25% | 0.14% |
| 79 | 2.93% | 1.13% | 6.98% | 7.37% | 2.25% | 4.19% | | 28.06% | | -0.05% | -1.26% | 2.02% | -0.15% | 0.24% | -0.02% |
| 80 | 8.29% | 8.39% | 6.95% | 5.55% | 7.55% | 8.50% | | 27.95% | | 0.01% | -0.97% | 1.87% | -0.03% | 0.51% | 0.26% |
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Fig. 8.5

[illegible]

Fig. 8.6

Microsoft Excel - Patent #4 [RCS example]

File Edit View Insert Format Tools Data Accounting Window Help

100%

| | DX | DY | DZ | EA | EB | EC | ED | EE |
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DX DY DZ EA EB EC

rawdata \ 1st 2 fund filters \ MF selection #1 \ MF selection #2 \ MF selection #3 \ Tracking TR \ Possible method to AC selection

Fig. 8.7

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | |
|--|--|---------------------------|--------|-----|--------|------|--------|-----|--------|-----|--------|-----|--------|-----|
| File Edit View Insert Format Tools Data Accounting Window Help | | | | | | | | | | | | | | |
| = This worksheet is for selecting MFs based on alphas calculated in the previous sheet | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | |
| 1 | This worksheet is for selecting MFs based on alphas calculated in the previous sheet | | | | | | | | | | | | | |
| 2 | 12/31/1996 Rank 03/31/1997 Rank 06/30/1997 Rank 09/30/1997 Rank 12/31/1997 Rank 03/31/1998 Rank 06/30/1998 | | | | | | | | | | | | | |
| 3 | 1 | WT: Wilm Lg Cap Gro;Instl | -0.11% | 78 | -0.15% | 78 | 0.03% | 67 | 0.25% | 33 | 0.25% | 32 | 0.06% | 59 |
| 4 | 2 | Wp Stewart Growth Fund | 0.68% | 4 | 0.49% | 10 | 0.55% | 10 | 0.47% | 13 | 0.55% | 6 | 0.74% | 3 |
| 5 | 3 | WM: Growth;A | -0.10% | 75 | -0.26% | 92 | -0.49% | 106 | -0.54% | 110 | -0.69% | 115 | -0.72% | 118 |
| 6 | 4 | Wilshire Tgt:LC Gr;Inv | 0.49% | 18 | 0.48% | 12 | 0.57% | 8 | 0.43% | 18 | 0.38% | 19 | 0.43% | 16 |
| 7 | 5 | White Oak Growth Stock | 0.66% | 5 | 0.56% | 6 | 0.44% | 78 | 0.40% | 20 | -0.10% | 79 | -0.01% | 66 |
| 8 | 6 | Wells Fargo: Lg Co Gr;l | -0.05% | 71 | -0.13% | 77 | -0.10% | 73 | -0.10% | 75 | 0.26% | 29 | 0.10% | 56 |
| 9 | 7 | Vanguard US Growth | 0.74% | 3 | 0.62% | 3 | 0.62% | 7 | 0.39% | 22 | 0.35% | 21 | 0.37% | 24 |
| 10 | 8 | Vanguard Growth Indx;Inv | 0.59% | 10 | 0.58% | 5 | 0.70% | 2 | 0.55% | 7 | 0.53% | 8 | 0.68% | 4 |
| 11 | 9 | Value Line Lyge Growth | -0.06% | 72 | -0.20% | 83 | -0.24% | 85 | -0.20% | 84 | -0.18% | 88 | -0.34% | 99 |
| 12 | 10 | Value Line Fund | 0.28% | 34 | 0.13% | 50 | 0.20% | 49 | 0.24% | 37 | 0.13% | 50 | -0.18% | 84 |
| 13 | 11 | Universal Capital Growth | -0.63% | 111 | -0.40% | 103 | -0.51% | 109 | 0.47% | 107 | -0.23% | 95 | -0.38% | 102 |
| 14 | 12 | United Vanguard Fund;A | -0.69% | 119 | -0.42% | 107 | -0.55% | 111 | -0.67% | 113 | -0.57% | 110 | -0.53% | 112 |
| 15 | 13 | UAM:Sirach Growth;Inst | 0.32% | 30 | 0.33% | 29 | 0.36% | 26 | 0.41% | 19 | 0.57% | 4 | 0.44% | 14 |
| 16 | 14 | Turner Gro Equity | -0.25% | 88 | -0.21% | 85 | -0.14% | 79 | 0.09% | 61 | 0.01% | 65 | -0.03% | 68 |
| 17 | 15 | Trainer Worthm:First Mut | 0.59% | 11 | 0.48% | 11 | 0.40% | 23 | 0.27% | 32 | 0.25% | 30 | -0.03% | 69 |
| 18 | 16 | TCW Galileo:Sel Eq;Instl | -0.37% | 97 | -0.32% | 96 | -0.42% | 98 | -0.40% | 100 | -0.19% | 89 | -0.34% | 98 |
| 19 | 17 | Target:Large Cap Growth | -0.35% | 94 | -0.53% | 112 | -0.52% | 110 | -0.23% | 88 | -0.55% | 109 | -0.39% | 104 |
| 20 | 18 | SunAmerica:Blue Chp;A | -0.41% | 102 | -0.20% | 82 | -0.05% | 70 | -0.09% | 74 | -0.17% | 85 | -0.20% | 86 |
| 21 | 19 | Strong Total Return | -0.33% | 93 | -0.30% | 95 | -0.25% | 87 | -0.24% | 89 | -0.19% | 90 | -0.30% | 93 |
| 22 | 20 | Stein Roe Growth Stock | 0.36% | 27 | 0.22% | 40 | 0.35% | 28 | 0.15% | 52 | 0.22% | 37 | 0.14% | 48 |
| 23 | 21 | SS Research:Growth;S | -0.92% | 120 | -0.89% | 121 | -1.20% | 121 | -1.11% | 121 | -0.01% | 121 | -1.19% | 122 |
| 24 | 22 | Spectra Fund | -0.20% | 84 | 0.09% | 55 | -0.30% | 89 | -0.46% | 106 | -0.22% | 93 | -0.27% | 92 |
| 25 | 23 | Sit Large Cap Growth | 0.10% | 55 | 0.13% | 47 | 0.25% | 40 | 0.11% | 58 | 0.33% | 25 | 0.41% | 19 |
| 26 | 24 | Seligman Growth;A | 0.08% | 56 | 0.09% | 53 | 0.14% | 56 | -0.12% | 77 | -0.20% | 92 | -0.19% | 85 |
| 27 | 25 | SEI Instl:Lg Cap Gr;A | 0.26% | 37 | 0.24% | 36 | 0.32% | 30 | 0.37% | 24 | 0.24% | 34 | 0.31% | 32 |
| 28 | 26 | Scudder Large Co Gro;Scd | 0.07% | 57 | -0.07% | 71</ | | | | | | | | |

Fig. 9.1

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Fig. 9.2

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| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | | | |
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Fig. 9.3

[illegible]

Fig. 9.4

| Microsoft Excel - Patent #4 (RCS example) | | | | | | | | | | | | | |
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